

CANOPY

WORLDWIDE IMPACT, LEADERSHIP, AND ENGAGEMENT



SPRING 2018

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Yale SCHOOL OF FORESTRY & ENVIRONMENTAL STUDIES

Impact

The F&ES community is making a significant impact around the globe.

Canopy strives to share some of the many examples of F&ES leadership in developing innovative and interdisciplinary approaches to a sustainable future.



The above map depicts the geographic areas featured in the stories and photographs within this issue.

NOTE The locations of Class Notes are not marked with dots on the map. You can learn about additional initiatives being led by alumni around the world on pages 40-54.

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ON THE COVER: Grthel Aguilar, Regional Director of the International Union for the Conservation of Nature (IUCN) Office for Mexico, Central America, and the Caribbean, was the 2018 Doris S. McCluskey Visiting Fellow in Conservation at F&ES. She is shown on the cover (*right*) with several of the F&ES students she worked with during the spring semester. *Learn more on pages 10-11.*

Cover Photo by Matt Garrett

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Dear Friends,

A year ago our School unveiled an ambitious new Strategic Plan that cast a renewed focus on our shared mission and outlined priorities for the next five years.

The plan, which reflected contributions from the entire F&ES community – including our faculty, students, staff, and alumni – identified our School's rich legacy of world-leading scholarship, teaching, and engagement to create a sustainable environment. It also identified pathways by which we can build on these strengths to provide leadership in tackling the environmental challenges of the 21st century.

Among the plan's critical goals were a commitment to research and training in environmental communication, environmental equity and diversity, and the imperative of interdisciplinary research.

A year later we're making exciting strides.

In December we hired Thomas Easley, our first Assistant Dean of Community and Inclusion, who is addressing a range of diversity, equity, and inclusion initiatives. These are important goals and, in Thomas, we found a perfect fit; he has a background in natural resources and forestry, has experience in diversity issues and academia, and is a gifted communicator who will be a valuable role model and mentor to our students. *(See page 5 for additional details.)*

This semester, we received a generous donation that will enable us to launch a new environmental communications initiative, which we believe will help us cement the School's reputation as a leader in environmental communications research and practice. A separate generous donation from James Leitner '75 B.A. will promote interdisciplinary research between F&ES faculty and scientists across the Yale campus. *(See pages 6-7 for additional details.)*

And this is just the beginning; in the coming months we'll announce exciting new plans supporting a range of priority areas, including initiatives around climate change and urbanization, environmental data, and environmental justice.

We also recently introduced an exciting new curriculum for the Master of Environmental Management degree, one that puts more emphasis on subject specialization while at the same time promoting common foundational skills that any environmental management professional should possess. *(See page 8 for additional details.)*

It's been an incredibly productive year and we have momentum on our side now. I look forward to staying in touch with you all as we continue to make progress.



Indy Burke
Carl W. Knobloch, Jr. Dean
Yale School of Forestry & Environmental Studies

ABOVE Dean Indy Burke (center) with students at Great Mountain Forest during MODS.

F&ES Names First Assistant Dean of Community and Inclusion

Thomas Easley, an educator who has tackled diversity challenges in the academic classroom and on the stage, joined F&ES this year as the Assistant Dean of Community and Inclusion.

Easley came to Yale from North Carolina State University (NCSU), where he spent 13 years as the Director of Community Diversity at the University's College of Natural Resources. He has a master's degree in forest genetics from Iowa State University and a doctorate of education from NCSU.

At F&ES, he is working with the entire community on a range of diversity, equity, and inclusion initiatives.

"Thomas has such an ideal combination of skills and experiences that will really help strengthen this community," said F&ES Dean Indy Burke.

At F&ES he is guiding initiatives to increase diversity, equity, and inclusion across the School. That includes working to build a more diverse community of students, faculty, and staff through active recruitment and working with faculty to incorporate a range of diverse examples and perspectives in courses.

At North Carolina State University, Easley worked across different levels of campus, creating a bridge between those working in the trenches on diversity issues and administrative leaders who previously might not have made such considerations a priority.

He directed the development and implementation of a strategic plan around diversity issues and taught a course, "Diversity and Environmental Justice." He also coordinated equity and inclusion training for student organizations and other administrative units across campus.

Additionally, he has been a pastor for a campus ministry that has attracted students from a wide range of backgrounds and he regularly performs hip-hop.

"When people hear about all the things I'm doing they say, 'Oh, you're doing too much!'" he said. "When I hear that I laugh and say, 'I'm not doing too much. It's the same message – I'm just changing up the platform.'"

Assistant Dean Thomas Easley (center) meeting with students.



F&ES Launches Center for Environmental Communication



The Yale School of Forestry & Environmental Studies recently obtained the initial funding to launch a new Center for Environmental Communication, which will leverage existing strengths in research and public engagement to establish the School as a world-class leader in environmental communication theory and practice.

The Center, which was identified as a priority in the recent strategic planning process, will address a growing urgency to more effectively communicate the environmental challenges facing the planet to a wide range of constituencies, School officials say.

Its objectives will also meet a demand from within the F&ES community – including students, alumni, and faculty – who say the School should be offering more communication-related teaching and training, said Anthony Leiserowitz, Director of the Yale Program on Climate Change Communication (YPCCC) (above), who will lead the new Center.

“Even as the science about these global environmental challenges has gotten ever stronger and more worrisome, the gap between what we know scientifically and what is understood by the world of policy-makers and the general public remains large,” he said. “And in some cases that gap is getting wider.

“The broader environmental community wants to understand how they can use 21st century strategies, tactics, and tools to address these critical communication challenges.”

The Center will have four main functions:

- 1 Conduct world-class research on environmental communication and engagement, building on the leading research already done by the Yale Program on Climate Change Communication (YPCCC)
- 2 Offer teaching and training for the F&ES community and working environmental professionals
- 3 Promote public engagement through the School’s mass media platforms, including the Yale Environment 360 magazine, the Yale Climate Connections national radio program, and the student-run Environmental Film Festival at Yale
- 4 Leverage Yale’s power to convene and catalyze the environmental community, including through national and international conferences and events

After the F&ES strategic plan prioritized the creation of a new center for environmental communication, a committee of faculty, staff, and students completed an inventory of existing communications-related assets at the School, including the work being done by the School’s Centers and Programs, and partners such as YPCCC, *Yale Environment 360*, *Sage Magazine*, and the Yale Institute for Biospheric Studies.

“The great news is that we have amazing assets already in place,” Leiserowitz said. “They just weren’t organized and brought together into a coherent or synergistic whole.”

Once better coordinated, these assets – including public media platforms and research initiatives – can be used to strengthen each other, Leiserowitz said. For example, YPCCC research on public perceptions of climate change has helped inform content produced by Yale Climate Connections, a 90-second radio program that is broadcast each day on more than 400 U.S. stations.

The Center’s training component is still being developed, but it will likely be offered in multiple formats and for different audiences. There might, for instance, be training opportunities, such as webinars or online courses, for working environmental professionals – in government, academia, the media, companies, and nonprofits – interested in understanding new communication and engagement tools and strategies.

At the same time, the School will develop a set of communication-related courses for students at F&ES and the broader Yale community.

When F&ES alumni have been asked in surveys to identify the sorts of training opportunities they wished they’d had while at the School, they often cite a need for more offerings in communication theory and practice, Leiserowitz said.

“To paraphrase what we hear from many survey respondents: ‘The School taught me to be a great scientist, to be a great policy analyst, to be a great entrepreneur, to be a great advocate. But in the end I need to communicate these ideas to others.’

“These professionals need to communicate these ideas to their colleagues, their bosses, their constituents, their customers, the general public, and other key stakeholders. Right now, they’re finding that many of these audiences don’t yet understand why environmental issues are so important or why we need to take strong action to address them.”



New Grants Promote Interdisciplinary Research and Teaching

A newly funded grant opportunity will promote collaborations for environmental teaching and research across Yale University.

The Leitner Awards for Uncommon Environmental Collaboration will aim to foster new research and teaching in six areas identified by the recent F&ES strategic plan: climate change, urban systems and the environment, environmental communications, environmental data science, environmental justice and environmental health, and interdisciplinary team teaching.

Proposed collaborations must include one principal investigator from F&ES and at least one co-investigator from another unit at Yale University.

The new grants were made possible by a generous gift from James Leitner '75 B.A. (pictured above), a past recipient of the Yale Medal for his outstanding service to the Association of Yale Alumni, whose volunteer service to Yale has extended across many disciplines, from engineering to nursing to international studies.

“The big global challenges that we’re facing don’t limit themselves to sectors or silos – they’re unbounded and unconstrained,” said Leitner. “So I think we need approaches to solutions that are also unbounded and unconstrained.”

It is expected that grants of up to \$25,000 and \$75,000 will be awarded for teaching and research proposals, respectively.

“The big global challenges that we’re facing don’t limit themselves to sectors or silos – they’re unbounded and unconstrained. So I think we need approaches to solutions that are also unbounded and unconstrained.”

James Leitner '75 B.A. | F&ES Leadership Council Member

“If we want to find meaningful solutions to our thorniest environmental challenges we’re simply going to have to work across disciplines and sectors. That’s why this generous gift from Jim Leitner is so important,” said F&ES Dean Indy Burke.

“These collaborations across traditional academic boundaries will better equip our faculty to tackle these complex problems – and, we hope, find answers that change the world.”

Research and teaching faculty, as well as research scientists, who have fulltime appointments at Yale University are eligible to apply for funds to support either new research initiatives and pilot work or the development of new courses that are adopted into the F&ES or undergraduate curriculum.

Leitner believes Yale University is an ideal setting for such collaboration because of its range of world-leading expertise. “You have this range of specialists – scientists and economists, doctors and architects. I believe that if we can bring them together and draw on their specialized knowledge we can bridge major gaps.

“The payoff can be tremendous. What’s the worst-case outcome? You bring together different specialists who do interesting things together and produce original research. But there’s also that outside chance that they can touch on something that is truly game-changing.”

Connecticut Sustainability Coalition Taps Yale Expertise

A new Connecticut initiative is bringing together tools and resources from across the state – including expertise from the Yale School of Forestry & Environmental Studies – to help the state’s cities and towns adopt more sustainable practices.

Modeled after similar projects in other states, Sustainable CT will make available best practices, peer learning, and certification opportunities to all municipalities. By convening stakeholders from across the state, the initiative will promote “creative thinking and problem solving” toward the common goal of sustainability.

Brad Gentry, Senior Associate Dean of Professional Practice at F&ES and Co-Director of the Yale Center for Business and the Environment (CBEY), will serve on the Board of Directors.

Gentry calls the partnership “a great fit” for some of the work being done at Yale. In many ways, Gentry says, the Sustainable CT collaboration is similar to other partnerships in which F&ES works with others to advance sustainability efforts on a global scale, including the Global Network for Advanced Management – a collaboration of graduate schools that connects resources and stakeholders – and the 100 Resilient Cities program, a Rockefeller Foundation-led partnership that helps cities worldwide become more prepared for physical, social, and economic challenges.

“Those aren’t that much different from what Sustainable CT is about,” said Gentry. “It’s examining how you can bring together networks of communities in a way that they can learn from each other and become more sustainable or resilient.

“I think that’s a really important question for the School to be working on and training our students to help address.”

New Environmental Management Curriculum Promotes Depth and Breadth

F&ES is launching a new curriculum for one of its core academic programs, the Master of Environmental Management (M.E.M.) degree, which places more emphasis on subject specialization while at the same time building common foundational skills and affording flexibility.

Beginning in the 2018-19 academic year, M.E.M. students will be required to select from one of eight academic specializations – all of which are geared toward meeting the environmental challenges of the 21st century.

While the format provides a clear roadmap for completing a degree in one of these subject areas, students can still devote more than half their academic load to classes outside their chosen specialization, retaining the flexibility that has been a popular component of the M.E.M. program.

All incoming M.E.M. students will also be required to take a series of common courses that will provide a shared foundation of knowledge and interdisciplinary perspectives that are essential for any environmental professional.

“This curriculum will provide a new level of depth in the students’ chosen area while still offering the flexibility that we’re known for in our course programming,” said Julie Zimmerman, Professor of Green Engineering and Senior Associate Dean of Academic Affairs at F&ES.

The new curriculum also introduces “learning communities” – including online portals that highlight the people, organizations, career paths, and other resources – associated with each specialization.

“I believe this is one of the most exciting elements of the new curriculum,” said F&ES Dean Indy Burke, who made curriculum evaluation a priority after arriving in 2016. “These dynamic communities will create an organization around the specializations – including research, practice, events, and workshops – in a way that extends education and training beyond the classroom and illustrates potential professional opportunities.”

Students will also have the option to create – in consultation with their faculty advisor – their own “self-designed” specialization track, based on their professional interests. And other specialization subject areas are likely to emerge in coming years.

The School’s other degree programs – the Master of Forestry, the Master of Environmental Science, and the Master of Forest Science – will remain unchanged.

The revised curriculum represents a major step forward in what has been a continuing conversation at the School about how to best prepare students for the world’s increasingly complex environmental challenges – and for a rapidly changing job market.



Professor Karen Seto in Burke Auditorium.

The new M.E.M. specialization areas are:

- Business and the Environment
- Climate and Air
- Ecosystems and Land Conservation/Management
- Energy and the Environment
- Environmental Policy Analysis
- Industrial Ecology and Green Chemistry
- Nature and Society
- Water Resource Science and Management
- Self-Designed Specialization

The process – which was co-led by Zimmerman and Matthew Kotchen, Professor of Economics and former/interim Associate Dean for Academic Affairs – incorporated feedback from faculty and students, alumni, and prospective employers.

Ultimately, Kotchen said, the new curriculum doesn’t change the mission of the School: to lead the world toward a sustainable future with cutting edge research, teaching, and public engagement on environmental challenges.

It simply changes how it’s done.

“We’ve actually offered the opportunity to choose a specialization for a few years, but going forward we’re going to do it in a more focused way,” he said. “These changes are in part a response to Indy Burke’s leadership, but also because the world demands it.

“The environmental management field has matured over the past couple of decades; it’s not just a fringe issue anymore, it’s a mainstream issue. So the mission of a School like F&ES has to continue to evolve to meet the challenges that come with that.”

Alums Gather to Honor Professor Dove

In December, a group of F&ES master's and doctoral alums convened in Washington, D.C. to discuss and honor the work of Michael Dove, the Margaret K. Musser Professor of Social Ecology (*back row, third from right*). During two panel discussions, they discussed Dove's contributions to the fields of environmental anthropology and political ecology, and his commitment to interdisciplinary research, teaching, and mentorship. Topics included the impact of Dove's thoughts and theories through the research of his former students, on environmental anthropology more broadly, and in conservation and development practice.

Dove's work has focused on the environmental relations of local communities, especially in South and Southeast Asia. During more than four decades, he has spent more than a dozen years in the field in Asia, carrying out long-term research on human ecology in Borneo and Java, developing government research capacity in Indonesia, and advising the Pakistan Forest Service on social forestry policies. His research and teaching interests include the anthropology of climate change and the cultural and political aspects of natural hazards, disasters, and resource degradation; indigenous environmental



knowledge and practice; the study of developmental and environmental institutions, discourses, and movements; and the history and sociology of the environment-related sciences.

Dean Burke and Professor Seto Elected to Connecticut Academy of Science and Engineering

Dean Indy Burke and Professor Karen Seto have been elected to the Connecticut Academy of Science and Engineering. Burke, who was named Carl W. Knobloch, Jr. Dean at F&ES in 2016, is an ecosystem ecologist whose research has focused on carbon and nitrogen cycling in semi-arid rangeland ecosystems. Seto, the Frederick C. Hixon Professor of Geography and Urbanization Science at F&ES, studies the human transformation of land and the links among urbanization, global change, and sustainability. Election to the Academy is based on scientific and engineering distinction, including through contributions to theory or applications, leadership of nationally recognized teams, and external professional awards.

Professors Seto and Raymond Elected AAAS Fellows

Professor Karen Seto and Professor Peter Raymond were elected fellows by the American Association for the Advancement of Science (AAAS) in recognition of their contributions to science. Raymond, a professor of ecosystem ecology, studies the biogeochemistry of natural systems, particularly the carbon and nitrogen cycles within aquatic systems. "This is such a great honor for Karen and Pete, two accomplished scientists who are doing novel research to better understand our changing planet," said Dean Indy Burke, who was elected as an AAAS Fellow in 2010. "Their important scholarship – including on climate change, urbanization, river and ocean biogeochemistry, and the use of environmental data – also happens to strengthen issues at the core of our own School's mission."

Looking to the Future: McCluskey Fellow Opens Door to F&ES Students

For more than 25 years, Grethel Aguilar has helped communities across the world conserve the integrity of their cultures and natural environment.

As the Regional Director of the International Union for the Conservation of Nature (IUCN) Office for Mexico, Central America, and the Caribbean, she has helped communities access clean water, advocated for stricter environmental regulations, assisted indigenous peoples in obtaining rights to their natural resources, and championed gender equality in environmental governance.

But in recent years, she admits, she had started to ponder ‘What’s next?’

Then last year Aguilar, who is from Costa Rica, was invited to serve as the 2018 Dorothy S. McCluskey Visiting Fellow in Conservation at F&ES, which allows conservation practitioners – particularly women from developing countries – to spend a semester at the School. In that role, they are free to pursue independent research, to enhance collaborations between F&ES and environmental organizations, and to expand professional training opportunities for students.

Dorothy S. McCluskey ’73 M.F.S., whose career spanned conservation and environmental planning in Connecticut and Block Island, R.I., and included four terms in the Connecticut legislature, endowed the fellowship in 1997. Aguilar is the 21st McCluskey Fellow.

When Aguilar arrived in New Haven for the spring semester she expected to complete research on a book, but it didn’t quite work out that way. Instead she found herself working with students on a variety of projects, helping them to organize major conferences and forge connections that will strengthen their own professional opportunities.

In an interview, Aguilar said the experience left her feeling re-energized about her own work. And it opened her eyes to the important role that young leaders can, and should, play in tackling the world’s environmental challenges.

What did you envision you would do during your time at F&ES?

For one thing, I was very interested in knowing how this School works. What is it that makes students want to come here? And from the perspective of an international organization like IUCN, how can we best support the new leaders coming out of universities like this?

Beyond that, when they asked me what I would want to do during this fellowship I said I would like to do some research as a follow-up to a book I published in 2002. That book, which came out of my doctoral thesis, was related to how we can support indigenous peoples and local communities to protect their traditional knowledge associated with the use of genetic resources. So I came here to do that research, but the experience ended up being so much more than that. I discovered a whole range of other opportunities.

It’s difficult to even be aware of all the things that happen here. But I have been very privileged and honored to be part of some of the efforts that the School and the students have put together. I have given talks on my research and on issues related to environmental governance, ecotourism, and indigenous peoples. I participated in the TFD [The Forests Dialogue] conference on tropical forests. But the best experience for me has been supporting our students in putting together their own ideas, including the organization of the Sustainable Development in Latin America and the Caribbean [SDLAC] conference.

What was your role in the conference?

I didn’t even know the SDLAC conference existed before I got here. But when the students asked me to support them, of course I said yes. And it really became a big part of my stay here. I became a co-host, helped with developing the agenda, helped bring in speakers and connect people. But most of all, I gave support to students on how they could coordinate this conference in a way that would benefit them, too.

It really was a student-led conference, and I was honored to be a part of it. They’re the ones who coordinated the panels; in the end they didn’t ask professors to moderate the panels, they did it themselves. And they worked really hard to be well prepared. They led really high-level panels with very high-quality speakers. Even if you have never been to Latin America or the Caribbean, you could have grasped within one day the main issues that the region is confronting and how the region can contribute to the international environmental agenda.

I just hope they have the support to make next year’s conference even better. We’re talking about our future leaders. It is important for them to understand every corner of the world and to meet the best experts out there. I’m sure many of the students here are going to be in very high positions very soon. So it’s a good investment for the School.

Which gets to one of the questions you wanted to address here: how does the university fit into the greater environmental realm – and in preparing new leaders. What have you learned about that?

I know that universities, especially this one, do a lot to connect students with things that are happening around the world. But I think somehow it is necessary to strengthen those links.



Dr. Aguilar presenting at the SDLAC conference.



Grethel Aguilar (third from left) with several of the F&ES students she worked with during the spring semester.

During spring break I returned to Costa Rica because the IUCN president, who is from China, was visiting the region. I decided to invite one F&ES student, who is Chinese, to be part of the IUCN delegation. We went from the field to the highest levels of government in Costa Rica. And I saw the value of having her as part of the delegation. She not only spoke Mandarin, which was helpful, but she knew about the subjects, could offer opinions, and added an important vision from a younger perspective.

Another student, as well as a former F&ES student, attended the World Water Forum in Brasilia, and they supported IUCN in ways that I can't describe. And it was very positive for them; it wouldn't have been the same if they had just registered for the event and sat alone in this big room. And so I asked myself again: 'Why aren't we doing this more? These students are the future ministers of environment, the future heads of water departments.'

What have you learned about this generation?

They are so aware, and they have so many ideas. They have a new way of doing things, and we need to take them seriously... They need to be brought in, but the door is not always completely opened. We should be the ones who open those doors and let them in and hear their ideas. I have felt very privileged to be exposed to a lot of knowledge during my time here at F&ES, and it's not just hearing the talks by great experts. It's also taking the time to hear the students.

How will your experience as a McCluskey Fellow affect how you do your job going forward?

I think that this time helped me to broaden my ideas on how I perceive the world, how I perceive others, and how I perceive the young generation. I have to say, Dorothy McCluskey was a great visionary. When I was invited here I thought, 'Why are they inviting someone like me to a university?' I've been working hard for so many years putting together projects to conserve nature and to improve the quality of life for people. But I kind of felt, well, what's next? Then I received this call from Yale University inviting me to come here and take some time from my normal life. I thought, maybe this is what I need!

I've certainly been busy here – working with students, giving talks, organizing conferences. But I've enjoyed not having any free time. I have been feeling very alive! I will miss being here, but I will leave with a lot of energy.

This interview was edited for length and clarity.

Shining a Light on Town-Gown Advances in Sustainability

Government and university leaders from 12 cities participated in a day-long conference last fall, held at Kroon Hall, that addressed innovative ways that municipal governments are working with universities to address sustainability challenges.

The conference, hosted by the F&ES-based Hixon Center for Urban Ecology, highlighted some of the successful partnerships already happening in the U.S. and Canada, from Vancouver, British Columbia to Birmingham, Alabama.

Colleen Murphy-Dunning, Program Director of the Hixon Center, highlighted the importance of such conferences, where officials from many cities were able to network and collaborate on urban sustainability solutions. The event, she said, provided a space for city leaders to ask, “what are our city’s problems, needs, and challenges, and how can we learn from other cities?”

When one city carries out a bold and innovative sustainability project, she said, it can later inspire other cities to take similar action and apply lessons learned.

Journal Examines 3D Printing and the Environment

For many in the general public and the engineering community alike, the potential implications of additive manufacturing (AM) have excited the imagination. Popularly known as 3D printing, the emerging class of technologies has been heralded as both a revolution in production and an opportunity for dramatic environmental advances.

Yet while the technological capabilities of additive manufacturing processes are studied extensively, a deep understanding of their environmental implications is still lacking.

A recent special issue of the F&ES-based *Journal of Industrial Ecology* presented the cutting-edge research on this emerging field, providing important insights into its environmental, energy, and health impacts.

“The research in this issue shows that it is too early to label 3D printing as the path to sustainable manufacturing,” said Reid Lifset, editor-in-chief of the *Journal*. “We need to know much more about the material footprints, energy consumption in production, process emissions, and especially the linkages and alignments between the various stages in the production process.”

Inspiring the Next Generation of Environmental Leaders

In April F&ES hosted Green Careers, Women Leaders (GCWL), a day-long environmental leadership training program designed to show female high school students – who often do not receive the same encouragement to pursue science and technology paths as their male peers – that science and environmental careers are inspiring, challenging, and prestigious options for young leaders.

GCWL was initiated by F&ES graduate students six years ago, with funding from the Class of 1980 Project Fund. Dedicated F&ES student organizers have strengthened and expanded the program in each subsequent year.

At GCWL, participating high school students from the New Haven community have a chance to connect with and learn from current F&ES students and environmental practitioners from different disciplines, including F&ES faculty and alumni.

This year’s program, based in Kroon Hall, included trainings in leadership and presentation skills, interdisciplinary lectures, a mini-MODS, a college tips session, and a professional panel focused on tools for success.



The GCWL panel included (left to right) Anastasia O’Rourke ’09 Ph.D., Special Consultant, Industrial Economics, Inc.; Dr. Grethel Aguilar, Regional Director, International Union for the Conservation of Nature (IUCN) and current McCluskey Fellow; Colleen Murphy-Dunning, Program Director, Hixon Center for Urban Ecology and Urban Resources Initiative (URI); Korinti Recalde ’08 M.E.M., Senior Director, Sustainability, United Technologies Corporation; Desiree Lopes ’15 M.E.M./M.B.A., Program Manager, Environmental Leadership and Training Initiative (ELTI); and F&ES Associate Professor Marian Chertow ’81 M.P.P.M., ’00 Ph.D., moderated by F&ES student Ellen Abramowitz (far right).

Local Impact: Students' Solar Energy Project Becomes Reality

In the spring of 2014, Timothy White '15 M.E.M. (pictured below) went before the energy commission in his hometown of Cheshire, Conn. with an idea.

In a pitch that he'd honed as a student at the Yale School of Forestry & Environmental Studies, White proposed the construction of a 1-megawatt solar plant atop a five-acre capped landfill, next to a municipal dog park.

According to his plan, a private developer would cover construction costs in exchange for the town signing a 20-year agreement to purchase the energy. Cheshire, meanwhile, would also be able to meet the power demands for 20 percent of town-owned buildings.

The board liked the idea, and immediately referred it to the town council which eventually approved the project. This spring, having navigated a series of economic, engineering, and legislative hurdles, the project – constructed by SolarCity in recent months – was finally in the ground and switched on.

Town Engineer Walter Gancarz predicts it will save the town \$1.3 million in reduced energy costs over the next two decades. And it wouldn't have happened, he says, if the F&ES student team didn't bring forward a well-formed and logical plan.

"Lots of people come forward with concepts," Gancarz said. "But the fact is, this proposal put some flesh on the bones. It was a pretty easy sell once the economics were laid out, but you need somebody to come up with the plan."

The plan was initially developed as a group project for the F&ES course, "Electric Utilities: An Industry in Transition," which is taught by industry veteran and lecturer Lawrence Reilly. The student group included White, Michael Brod '14 M.E.M., Marley Urdanick '15 M.E.M., Drew Veysey '14 M.E.M., and Byron Ruby '18 M.E.M.

The course, which has been offered for five years, covers issues related to public electricity from the days of Edison to the present. And each year it culminates with group presentations on hypothetical energy projects aimed at a public utility – or, as with this project, to a municipal government.

"To be successful the groups have to understand the economics of the project from, in this case, the city's perspective, but also from their own perspective as developers," said Reilly. "Because they have to be able to make money from the project, too."

"Ultimately we want them to understand the total value created and the ways to split that up between the utility or client and the development team."

Installing the project took longer than White had hoped. For one thing, the town had to wait for state legislation that expanded virtual net metering credits, which allow customers operating "behind-the-meter" systems, like the solar plant, to transmit surplus power to municipal buildings at reduced costs.

For White, a former Cheshire town council member who now works at F&ES, the project represents the kind of small-scale, local projects that will be needed to achieve a low-carbon global economy.

"Now that this project is live, more than 20 percent of our energy consumption will come from clean energy," he said. "So there's not only an economic impact but, from an environmental perspective, we're having a positive impact."

"Hopefully F&ES alums around the country and the world will be bringing forward similar local projects and making things happen," he added. "Because dreams are great, but making them happen at the local level is the important thing."



F&ES Leadership Council 2018

During the 2018 F&ES Leadership Council meeting, April 12-13, more than 50 members and a dozen guests gathered for a two-day symposium entitled “F&ES Steps Up: Knowledge and Leadership for a Changing Climate.” The program provided an update on the F&ES Strategic Plan, which had been presented in draft form at last year’s Leadership Council meeting, and focused on two of the most important new initiatives identified in the Plan: Climate Change and Environmental Communication.

On Thursday afternoon, April 12, Leadership Council Chair Thomas McHenry '77 B.A., '80 M.F.S. welcomed everyone to Kroon Hall’s Burke Auditorium for the 19th annual meeting. Roger Cohn '73 B.A., Founder and Editor of *Yale Environment 360* (the world-renowned online magazine based at F&ES), followed McHenry with a lively and admiring introduction of his friend and colleague, Pulitzer Prize-winning journalist Elizabeth Kolbert '83 B.A., who delivered the keynote address. Kolbert presented evocative case studies of global conservation challenges posed by climate change and the creative solutions that have been developed to address them. By turns hilarious and sobering, her remarks set the stage for Friday’s in-depth look at how F&ES trains students and alumni to provide the solutions-based leadership we need.



1-2 Keynote speaker Elizabeth Kolbert '83 B.A. enthralled the audience with a talk drawn from her acclaimed books “*The Sixth Extinction*” and “*Field Notes from a Catastrophe: Man, Nature, and Climate Change.*”

3 Thomas McHenry '77 B.A., '80 M.F.S., Chair of Leadership Council (right), with G. Len Baker '64 B.A. and Ed Bass '67 B.A.

4 Members and guests enjoy dinner in the Knobloch Environment Center, Kroon Hall.

5 Mark Broach '83 B.A., Brandi Colander '07 M.E.S., and Professor Brad Gentry in conversation over dinner.





After an evening reception and dinner in the Knobloch Environment Center, Friday morning began with Thomas McHenry's Leadership Council report introducing new members Brandi Colander '07 M.E.S., Ceara Donnelley '04 B.A., '09 J.D., James Leitner '75 B.A., and David Sobotka '78 B.A. He also announced the formation of the new Steering Committee of the Leadership Council, a small group of about a dozen advisors to Dean Burke who will meet more regularly and serve as liaisons to the full Council.

Dean Burke's "State of the School" talk provided an update on the 2017-2018 academic year and a reminder of the process that led to the Strategic Plan released in May 2017, including the April 2017 Leadership Council meeting during which members offered valuable feedback. She reported to the Council on subsequent accomplishments relating to the Plan, such as the hiring of Assistant Dean of Community and Inclusion, Dr. Thomas Easley, and situated the upcoming presentations by Professor Peter Raymond and Dr. Anthony Leiserowitz within the larger context of the Plan's important goals.

A panel discussion followed, moderated by Professor Raymond and featuring F&ES alumni "on the front lines" of climate change. Casey Pickett '11 M.E.M./M.B.A., Shyla Raghav '09 M.E.M., and Mark Urban '01 M.E.Sc., '06 Ph.D. spoke about the challenges and opportunities they face as they seek business, policy, and scientific solutions to the most critical environmental problem of our time. Professor Raymond described the Strategic Plan's new Climate Change Initiative that will ramp up F&ES's curricular, research, and professional internship opportunities related to climate change. Dr. Anthony Leiserowitz described plans for the new Center for Environmental Communication (see page 6), which will build upon the existing strengths of the Yale Program on Climate Change Communication to expand teaching, research, and outreach relating to attitudes and beliefs about environmental issues and how to communicate scientific knowledge more effectively.

During the concluding lunch, Ceara Donnelley gave moving remarks in honor of her late father, Strachan Donnelley '64 B.A., whose book "Frog Pond Philosophy," posthumously published by the University Press of Kentucky and edited by Ceara Donnelley and Bruce Jennings, was a gift from the Donnelley family to all Leadership Council members present at the meeting. Ceara recounted Strachan's innate ability to integrate science and values, analysis and emotion, and humans and nature. Strachan, who died in 2008, was a founding member of the Leadership Council and his example was an especially meaningful way to bring the 2018 meeting, focusing as it did on the importance of both the development of scientific knowledge and its effective communication, to a close.



6 Burke³ – Dean Indy Burke and Coley Burke '63 B.A. in Burke Auditorium before the Friday program.

7 Dean Indy Burke fields questions following her "State of the School" presentation.

8 Heinrich Jessen '95 M.E.M. queries the alumni panel.

9 Professor Peter Raymond (second from right) and F&ES alumni panelists (left to right) Mark Urban '01 M.E.Sc., '06 Ph.D., Casey Pickett '11 M.E.M./M.B.A., and Shyla Raghav '09 M.E.M.

10 New member Ceara Donnelley '04 B.A., '09 J.D. speaks about "Frog Pond Philosophy," written by her late father Strachan Donnelley '64 B.A., founding member of the F&ES Leadership Council.

11 Dr. Anthony Leiserowitz announces the Yale Center for Environmental Communication.

Class of 2018 Pays it Forward

For their Class Gift, members of the graduating Class of 2018 are pitching in to support student-to-student scholarships for the incoming Class of 2020 through gifts to the F&ES Annual Fund. As of publication, more than \$5,300 has been raised – and the gifts keep rolling in! In late April, Yale's mascot Handsome Dan XVIII stopped by Kroon Hall to spread school spirit and thank the students for their generosity (see photo below).



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Donor Spotlight:

Sara Smiley Smith
'07 M.E.Sc./M.P.H., '16 Ph.D.

My time as a student at F&ES provided me with many opportunities to explore messy problems and practice, practice, practice problem-solving. Those opportunities to tinker with change management were formative for me, and helped me to see Yale as an institution that was ready to empower its students to seek new ways forward.

As a master's student, I partnered with staff members to re-envision move-out recycling on campus known as "Spring Salvage." This effort required careful consideration of a multitude of variables, from student norms of behavior, to custodial schedules and practices, to city fire codes, to the needs and capacity of regional nonprofit organizations. Over two years, we worked as a team to create new processes and diverted over 50 tons of materials from the waste stream in our second effort.

I am inspired to give each year to the F&ES Annual Fund to continue providing these hands-on learning opportunities to the next generation of change-makers as they come through the School.

I particularly appreciate that alumni are able to target their gifts through the Annual Fund, selecting areas of the School that mean the most to them individually.

Sara is Assistant Dean of Research and Sustainability at F&ES.

Solving the Ivory Deadlock: Q & A with Gao Yufang '14 M.E.Sc., Doctoral Candidate

Stopping the rampant slaughter of elephants that continues to feed the ivory trade will require a new kind of thinking, says Gao Yufang '14 M.E.Sc., a current doctoral student who has studied how human values affect decisions by stakeholders at every step of the ivory trade.

Gao, a student in the combined degree program between F&ES and Yale's Department of Anthropology, recently co-authored a paper published in *Science* which made the case that global efforts to protect elephants are hampered by disagreements over the best conservation policy. On one side are those calling for an international ban on the ivory trade. On the other are those who believe that a closely regulated trade is the only way to save elephants.

In an interview, Gao talks about how different perspectives and values are shaping the very definition of the problem, and how humankind might be able to slow the poaching epidemic. If conservation leaders don't take the time to understand and reconcile these different perspectives and values, he said, it will be impossible to craft meaningful long-term solutions.

Indeed, he said, it will be elephants that suffer the most.

You argue that the debate over whether to ban the ivory trade is hampering the greater goal of protecting elephants. How so?

Wildlife conservation is fundamentally about people making decisions, and in most situations, decisions are matters of political struggle over different values. I started researching the ivory trade in 2012 because at that time I was shocked to see that on the one hand African elephants were threatened by poaching and illegal ivory trade, on the other hand, people were in disagreement and unable to organize collective and effective conservation efforts. The situation has improved in many ways, but the deadlock over ivory policies continues.

For many international organizations this call for banning the ivory trade has become the predominant strategy...

Yes, that's the dominant perspective now, and it has gained a lot of momentum. Conservation organizations and animal welfare groups want to ban all forms of trade in ivory. They argue that if there is a legal trade, there will be no way to distinguish illegal ivory that enters the trade, and that it would increase the difficulty in implementing laws and regulations. Also, they believe that if we declare all ivory trade illegal it will help people understand that buying ivory is not socially acceptable, which will make it easier to reduce the demand and shut down the market.

What about the other side of the debate?

Well, those who are in favor of having a regulated trade say, 'What about local communities who bear the cost of living with elephants?' They argue that the ivory trade can be an important source of income to support local communities and conservation initiatives. There are also concerns that forbidding the ivory trade won't be useful because the entire market will be done illegally and also because law enforcement in many countries tends to be ineffective. If you ban the trade, it goes to the black market and it may push the ivory price to higher levels.

Now, I don't intend to represent either viewpoint, but I can see how both arguments make sense in some ways. As we write in the paper, it's important to recognize and understand people's different perspectives and their underlying values because they determine alternate definitions of the problem and possible solutions.

How might an alternative process work?

Well, it's too complex to explain in a few sentences. Experts in other areas have harvested a lot of useful experience on how to overcome the gridlock in natural resource policymaking through upgrading the social and decision-making processes. Here I would like to emphasize that the very first step is to recognize the different perspectives and related value outlooks. Differences are not a danger to collective efforts; the real danger is the unawareness of differences and the unwillingness to recognize differences. Our article offers a possible way to help people understand their differences. Based on a genuine recognition of different perspectives, values, and related modes of cognitive and practical problem-solving, we can then integrate scientific and other types of knowledge into policies and make better decisions. Rather than relying on a single, centralized authority, I believe we must create new arenas to facilitate the intercultural communication processes at various levels of our society.



Gao Yufang '14 M.E.Sc., a doctoral student, in Botswana.

Alumni and Students – Awards and Recognition

Dorceta Taylor Honored with Audubon’s Rachel Carson Award

In May, Dorceta Taylor '85 M.F.S., '91 Ph.D. received the National Audubon Society’s Rachel Carson Award, which honors American women whose work has greatly advanced conservation locally and globally. The organization acknowledged Taylor’s scholarly contributions examining historic inequities ingrained in the founding of the U.S. and the American environmental movement that have had lasting impact on society. Taylor is Director of Diversity, Equity, and Inclusion and Professor at the University of Michigan School for Environment and Sustainability.



Dorceta Taylor '85 M.F.S., '91 Ph.D. with F&ES Dean Indy Burke at the 2018 Audubon Women in Conservation Luncheon.

Alum Receives 2018 Inspiring Yale Award

The Yale Graduate and Professional Student Senate selected Alark Saxena '07 M.E.M., '15 Ph.D., an Associate Research Scientist and Lecturer at F&ES, as the recipient of the 2018 Inspiring Yale Award for inspiring Yale students in and out of the classroom. Alark, who is also the Program Director of the Yale Himalaya Initiative, focuses on developing solutions to increase the sustainability of natural resources, reducing risks of vulnerable populations to potential disasters and improving the well-being of poor and vulnerable communities around the world.

Alum Named 2018 Obama Foundation Fellow

Erin Barnes '10 M.E.M., co-founder and CEO of ioby – a national organization that helps local leaders improve their neighborhoods through resident-led, crowd-funded community change – has been named a 2018 Obama Foundation Fellow. The nonprofit offers fundraising coaching to local organizations, helping them to craft effective campaigns, fundraising plans, timelines, and budgets. It also connects groups with experts – in subjects like urban planning and green infrastructure – to help them implement their projects.



Wyss Scholars Program Supports Future Western Conservation Leaders

The Wyss Foundation, a charitable organization that supports land conservation in the American West, selected three students from F&ES as 2018 Wyss Scholars – Matthew Lifson '20 J.D./M.E.M., Jack Singer '19 M.F., and Ben Williamson '19 M.E.M. The Wyss Scholars Program supports graduate-level education for the next generation of leaders in western land conservation. The recipients will receive tuition, internships, and post-graduate support as part of the program.

Students Honored for Conservation, Wildlife Science Research

Two F&ES students were awarded the 2017 MK McCarthy-RW Worth Scholarship for Leadership in Conservation Science. Corey Creedon '18 M.E.M., whose work aims to create conservation solutions that also achieve environmental justice, and Elizabeth Naro '18 M.E.M., who studies the drivers of organized wildlife and wildlands crime, were recognized for their demonstrated leadership in the field of conservation biology and wildlife science.

Four Students Selected as 2018 Sabin International Environmental Fellows

F&ES has selected four graduate students as Andrew Sabin International Environmental Fellows, with each Fellow receiving up to \$40,000 of funding for their education and post-graduate service in the environmental sector. The 2018 Sabin Fellows are (left to right in photo): Anna Carcamo '19 M.E.M. (Brazil), Sneha Pandey '19 M.E.M. (Nepal), Sarah Omusula '19 M.E.Sc. (Kenya), and Indra Acharja '19 M.F.S. (Bhutan).

Started in 2011 by the Andrew Sabin Family Foundation, the fellowship provides scholarship support for students from developing countries, and postgraduate awards to those students returning to their home countries and regions to pursue environmental careers. Each Fellow is eligible to receive tuition assistance of up to \$20,000 and another \$20,000 in post-graduation awards within 18 months of graduation.

Mary Tyrrell '97 M.F.S., Advocate for Forest Owners and Students, Retires



Mary Tyrrell '97 M.F.S. (pictured left) had always considered herself an environmentalist, but it took her a while to make a career of it.

For years before enrolling at the Yale School of Forestry & Environmental Studies she'd worked in the digital technology sector. By the mid-1990s she was managing the implementation of manufacturing processes in emerging markets for one of the world's earliest computer makers.

But increasingly she felt the pull to do something else.

"The work I was doing was heady stuff, but at the same time I was thinking, 'What am I doing?'" Tyrrell recalled recently. "I was just trying to figure out how to make these products cheaper all the time. Was that the way I wanted to spend the rest of my life? I decided it wasn't."

In 1995 she enrolled at F&ES where in the process of earning a master's degree in forest science she fell in love with ecology. And while she would never have imagined it at the time, it led her to a community where she would spend the next 23 years of her life.

After graduation Tyrrell joined the staff of the School. Her first role was with the now defunct Center for Coastal and Watershed Systems, but it was becoming clear to her that her passion was forests. In 2000, she became the Director of the Yale-based Global Institute of Sustainable Forestry (GISF), one of the several new Centers that have since redefined the School's role in the forest sector and how it connects faculty, students, industry, and alumni.

In the two decades since, Tyrrell, who retired at the end of the spring semester, also mentored students, taught courses, coordinated the School's summer orientation program (MODS), conducted research on the impacts of land use changes, and helped create the Sustaining Family Forests Initiative (SFFI), a national program to improve stewardship of family-owned forestlands.

At GISF, she helped organize and run conferences, hosted an annual field educational program for visiting Indian Forest Service professionals and, critically, increased the School's outreach to private forest owners through creation of the Sustaining Family Forests Initiative.

The Sustaining Family Forests Initiative, which now receives funding from the U.S. Forest Service, has trained more than 1,200 natural resources professionals from 400 organizations over the past decade.

Through the SFFI workshops, Tyrrell and her team have helped these professionals better understand the attitudes and behaviors of landowners and develop strategies to meet their landscape goals by engaging the landowners in stewardship and conservation actions. (Learn more on pages 20-21.)

A key factor in Tyrrell's success, colleagues say, is her skill in communicating with scientists and funders, landowners and policy-makers, even though they might have very different goals and speak different languages.

She understands that every region, and that every owner, is different, said Gary Dunning '96 M.F., Executive Director of The Forests Dialogue, which is based at F&ES, and a longtime friend and colleague of Tyrrell's. And she illustrates that she's interested in listening to their stories.

"With landowners, you have to earn their trust," he said. "And it's not as easy as building a partnership with industry or the government. Landowners work on personal relationships, and if they don't trust you you're not going to get very far."

"Mary demonstrated that she was able to earn the trust of that community to the point where she was able to build a really strong, successful program."



Mary Tyrrell (left) as a student, with classmates Ellen Denny '97 M.F.S. and Paul Calzada '97 M.E.M. during a "soils" class field trip.

F&ES-Led Network Empowers Women Woodland Owners

As a stewardship forester with the Vermont Land Trust, Caitlin Cusack '08 M.F. meets with dozens of forest-owning families every year. Their conversations usually begin around the kitchen table, where often a husband and wife will share updates on their family and land over a cup of coffee or tea.

Typically, she says, the wives are very much involved in the financial and organizational logistics of running the household; often, in fact, they're the ones who keep the books. But when it comes to decisions about what to do with their forestlands, most women are likely to defer to their husbands.

"When the time comes to go outside and walk the property, it's the husband who usually takes the walk," Cusack says. "Often I'll invite the wife to join us. But usually she'll say, 'Oh, no, he takes care of that.'"

The dynamic isn't universal, of course. But other forestry and conservation professionals agree that this situation is fairly common and reflects a stubborn reality: in many ways forestry remains a male-dominated world – even as the number of female woodland owners is increasing nationwide.

A growing network of natural resources professionals, with the help of the F&ES-based Sustaining Family Forests Initiative (SFFI), is trying to change that dynamic. In a series of workshops, webinars, retreats, and trainings, a coalition is forming to help female landowners better understand their land management options and empower them to become better stewards.

Many advocates for female woodland owners say they confront an underlying challenge: historically women weren't the ones in the family who dealt with land management issues. As a consequence, over the generations some of the skills or areas of expertise needed to manage the land – from being able to identify tree species to operating a chainsaw – often haven't been passed on to young women.

In October, SFFI convened a first-of-its-kind gathering of groups that have created programming specifically for female landowners or that are interested in doing so. In the months since, SFFI has helped galvanize and connect the group – which has long existed as independent organizations under the banner of the Women Owning Woodlands network – and established training and mentoring opportunities to disseminate best practices nationally.

"I meet women all over the country who say, 'I inherited my land and I really want to be a good caretaker but I don't know what to do with it,'" says Mary Tyrrell '97 M.F.S., director of SFFI and the F&ES-based Global Institute of Sustainable Forestry. "Forestry is still very much a very 'macho,' male-oriented field. It's changing but it's still mostly a guy's world."

"That's why it's so important to have these women woodland owners meet each other and reinforce each other. It really helps them to see that they aren't alone, and that they're involved in something bigger – and that they have a network they can count on."





Amanda Mahaffey '04 M.F., the Northeast Region Director of the Forest Stewards Guild, presents during a recent workshop in New York.

More women than ever before are responsible for managing their woodlands. According to recent USDA data, the percentage of family-owned forest properties with women as the primary decision-makers increased from 11 percent in 2006 to 22 percent in 2013.

While there is relatively little research on how men and women differ when it comes to land-use and land management attitudes and behaviors, a 2017 study, coauthored by Tyrrell, provided some important insights.

According to the study, published in the *Journal of Forestry*, women are less likely than men to own their land for privacy, hunting, recreation, or timber. They're also less likely to participate in forest management activities such as timber sales, participate in wildlife management or landowner assistance programs (such as management assistance or tax programs), or receive advice about their land. When they do seek land management advice it's more likely to be from family members.

These findings, the researchers concluded, show the urgency for programs designed specifically for female woodland owners. They suggest, for instance, that programs encouraging women to contact professionals – such as foresters and wildlife biologists – and that provide easy access to that expertise will encourage women to take a more active stewardship role.

In truth, such programming has been emerging across the U.S. at least since the early 2000s – often under the leadership of F&ES alums.

In Pennsylvania, for instance, a coalition co-led by Allyson Muth '99 M.F. at the Center for Private Forests at Penn State University hosts biennial retreats that provide women with skills in forest stewardship. And in Maine, Amanda Mahaffey '04 M.F., the Northeast Region Director of the Forest Stewards Guild, works with local conservation groups to coordinate workshops to empower female woodland owners.

The workshops build knowledge, Mahaffey says, but just as important, they empower. “There’s something powerful about being in a room full of women with shared experiences,” she says. “In that setting it’s OK to say, ‘I don’t understand,’ or ‘Where do I go for help?’ on fundamental issues.”

Created in 2003, the Sustaining Family Forests Initiative helps natural resource professionals better connect with the owners of private woodlands about sustainable land management. The stakes are potentially enormous; about a third of all forestland in the U.S. is owned by private individuals and families, and in most cases little was known about how they used their land or their long-term plans.

While many of SFFI's workshops and initiatives are framed within a regional context, Tyrrell says the work with the Women Owning Woodlands network is in the same vein.

“When we work with, say, the Great Plains Initiative on encouraging farmers to plant trees in riparian areas, it is a very place-based agenda,” she says. “But if you think about it, the work with women woodland owners is no different. It’s just a different slice of the landowner population – and a different slice of the professional organizations that are trying to work with them.

“And ultimately we’re encouraging them to adopt practices that will benefit the environment and the landowners themselves.”



1-2 Participants in a workshop for natural resource professionals who are working on programming specifically for female woodland owners, in October 2017.

Yale Environmental Sustainability Summit Catalyzes Change-Makers

How often do you have a chance to connect with hundreds of Yale alumni sustainability leaders, experts, practitioners, and scholars from around the world to explore resilient solutions to some of the most entrenched and complicated sustainability challenges?

Those who converged on campus for the 2017 Yale Environmental Sustainability Summit (YESS) spent two days last fall doing just that. Throughout the summit, participants identified ways to connect across sectors to link sustainability strategies and drive change through interdisciplinary collaboration.

“It was inspiring to engage with people who had graduated from Yale over the past 40-plus years, each motivated in their own way to make this world a better, healthier, more just, and sustainable place today and for future generations,” reflected Emily Grady ’15 M.E.M., a YESS 2017 Leadership Team member.

YESS 2017 was entirely designed and organized by Yale alumni. Twice each month throughout 2017, more than a dozen alumni from around the world contributed to building content that would stretch beyond the usual voices and issues and engage a diverse audience, including people from different backgrounds, industries, and political parties. “We were committed to not allowing the same divisions we see expressed in society to show up in the sessions we planned,” said Sara Smiley Smith ’07 M.E.Sc./M.P.H., ’16 Ph.D., another YESS 2017 Leadership Team member.

YESS organizers crafted an interactive and thought-provoking program on the theme of “Change-Makers: Catalyze, Cultivate, Connect.”

Elizabeth Yeampierre, Executive Director of UPROSE, gave a keynote address titled “Climate Justice: From Brooklyn to Puerto Rico.” **1**

Panel discussions explored a range of topics, from transforming the food system, to the impacts of climate change on public health, to industrial ecology, to driving sustainability in business, to the future of renewable energy in the American West.

Panelists included a number of F&ES alumni and faculty members. For example, the panel on “Flowing Capital to a Sustainable Future” brought together five alumni to share their perspectives from the impact investing arena. **2**

F&ES Dean Indy Burke (*right*) moderated the closing plenary panel, “Moving Ahead: Change Making, Sound Science, and the Rule of Law.” Panelists included (*left to right*): Paul Anastas, Teresa and

H. John Heinz III Professor in the Practice of Chemistry for the Environment; William K. Reilly ’62 B.A., Chairman Emeritus, World Wildlife Fund and Former Administrator, U.S. Environmental Protection Agency; and Thomas McHenry ’77 B.A., ’80 M.F.S., President and Dean, Vermont Law School. **3**

Throughout YESS, the organizers coordinated small group discussions with alumni mixed by geography and sector to spark new connections among attendees. **4**

“In a world where things seem to increasingly fall apart, YESS provides a great opportunity to pull together high-octane alumni, faculty, and students to engage meaningfully and across divisions to support true change.”

Tim Allred ’99 M.E.M./M.B.A. | YESS 2017 Leadership Team Member

Current F&ES students who attended YESS had the opportunity to learn from and engage with hundreds of alumni leaders in sustainability-focused fields. “I was humbled by the extraordinary alumni network that was present at YESS this year,” said Laura Tamjarv ’18 M.E.M., one of the F&ES students on the YESS 2017 Leadership Team. “As a current student, the conversations I had with the attendees during panels and networking sessions really stuck with me.”

Emily Grady noted that being a part of the planning team for YESS presented the unique opportunity to stay connected with Yale while working with people from different schools, programs, and class years. “It was exciting to learn from each other and to get a sense of the many ways in which the Yale community is tackling complex and divisive sustainability issues,” she said.

Looking ahead, attendees and planners alike have expressed a desire to focus on increasing the impact of this event so that it makes a measurable difference. The YESS 2019 planning team will focus on potential themes and strategies to employ to achieve this outcome.

You can review the detailed programs from YESS 2015 and YESS 2017, and find out how to stay connected to YESS, by visiting yess.yale.edu.





4



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5 Gina McCarthy, former Administrator, U.S. Environmental Protection Agency (second from left) with the YESS 2017 Leadership Team (left to right): Tim Allred '99 M.E.M./M.B.A., Emily Grady '15 M.E.M., Sara Smiley Smith '07 M.E.Sc./M.P.H., '16 Ph.D., and current students Abby Snyder and Laura Tamjarv. McCarthy participated in a YESS plenary conversation with Professor Dan Esty '86 J.D.

F&ES connected with Tim Allred '99 M.E.M./M.B.A., one of the YESS 2017 Leadership Team members, following the summit.

How did you become involved in planning YESS 2017?

I was one of the original “Green Davos” organizers (alumni from F&ES/SOM circa 1998-2000) that evolved into YESS in 2015 under the leadership of Carlos Pineda ['00 M.E.M./M.B.A.] and others. I met Carlos in 1997 as we both pursued joint degrees at F&ES and SOM, and we became close friends. While on an annual surf trip with Carlos in 2016, he shared with me his cancer diagnosis and asked me to help lead YESS 2017, to build on the successes of a truly inspiring YESS 2015 and to make sure the event became part of the fabric of Yale. I took on this challenge along with the fabulous co-leaders of YESS 2017, with the goal of “institutionalizing” the original vision of creating a space for alumni to reconnect as human beings and support each other professionally.

What were your goals in planning the second YESS?

The leadership team’s fundamental goal was to ensure YESS 2017 met the same level of buzz and energy of YESS 2015 while creating institutional momentum to embed YESS on campus as a recurring event. Other goals included broadening the focus of “sustainability” to include social justice, environmental health, and other environmental challenges beyond energy and climate change. We worked hard to be more inclusive by reaching out to alumni of color and to alumni from Yale beyond F&ES and SOM.

Building on the momentum from the first two Yale Environmental Sustainability Summits, what are the next steps?

In a world where things seem to increasingly fall apart, YESS provides a great opportunity to pull together high-octane alumni, faculty, and students to engage meaningfully and across divisions to support true change. The challenge for YESS will be to simultaneously create infrastructure to ensure that the event continues and elevates its impact while maintaining the organic visioning and planning process for future YESS Leadership Teams. In my view, YESS should be a response to the times and a platform for engaging challenging issues.



Tim Allred (third from left) with “Green Davos” alumni at YESS 2017.



During YESS 2017, the inspiration that Carlos Pineda '00 M.E.M./M.B.A. provided in initiating the first YESS was recognized and his life was celebrated through a moving video made by Jaime Carlson '09 M.E.M./M.B.A. The video ended with the following: “Thank you, Carlos, for bringing us here today and for continuing to remind us to ask: What would you attempt to do if you could not fail?” The leadership teams of YESS 2015 and 2017 are shown above, mirroring Carlos’s pose on a mountaintop, shown in a photo at the end of the video.

Strengthening the Worldwide Alumni Community

The F&ES Alumni Association Board (AAB) reflected on 2017 alumni engagement programs and thought strategically about where to focus their collective efforts in 2018 when they returned to campus for their biannual AAB meeting in February.

One overarching priority of the AAB is to support the School's efforts to implement the F&ES Strategic Plan. At the AAB meeting, Dean Indy Burke provided an update on the Strategic Plan and discussed ways the AAB, and F&ES alumni more broadly, could support the implementation of key priorities. AAB members then participated in interactive sessions focused on key elements of F&ES Strategic Plan implementation.

During a session with Thomas Easley, the new F&ES Assistant Dean of Community and Inclusion, the discussion focused on diversity initiatives at the School and ways alumni could contribute to these efforts, ranging from recruitment to mentoring. Students also shared their insights on how alumni could support F&ES diversity initiatives with a group of AAB members before the AAB meeting, at a session facilitated by Emily Enderle '07 M.E.M.

Matt Kotchen, F&ES Associate Dean of Academic Affairs and Professor of Economics, led a Strategic Plan implementation session focused on the F&ES curriculum. He provided a detailed update on the new

M.E.M. specializations (*see page 8 for additional details*) and discussed how alumni might be able to serve as resources to current students within these specializations.

The AAB meeting also included working sessions focused on additional AAB priority initiatives, from alumni-student mentoring to volunteer opportunities to international alumni engagement. The AAB has many innovative programs underway to engage and connect the worldwide community of more than 4,900 alumni.

"I am both honored and excited to be part of the Alumni Association Board (AAB)," said Joe MacDougald '05 M.E.M., AAB President. "The group has an incredibly ambitious agenda, from major conferences like YESS to mentoring through the ELM program to field-based learning. Top priorities for the AAB include identifying opportunities for alumni to support F&ES Strategic Plan implementation and exploring more ways to connect alumni to the School.

"The AAB always welcomes input from alumni – and we hope you will also consider nominating yourself or a fellow alum for the AAB in an upcoming year!"

View bios of current F&ES Alumni Association Board members: <http://environment.yale.edu/alumni/board-directory/>

The F&ES Alumni Association Board (AAB) kicked off its February 2018 on-campus meeting with an alumni-student TGIF in the *Invisible Boundaries* exhibit at the Peabody Museum of Natural History. The TGIF provided an opportunity for AAB members to connect with current students surrounded by an exhibit focused on the Yellowstone wildlife migrations research of Arthur Middleton '07 M.E.M.

AAB members Sue Ely '07 M.E.Sc. (1, center), Joe MacDougald '05 M.E.M. (2, left), Cilla Kellert '74 B.A., '81 M.F.S. (3, right), and Tara Meyer '15 M.E.Sc. (4, left), along with AAB Student Representative Gao Yufang '14 M.E.Sc./doctoral candidate (4, center), connecting with current students at the TGIF in the *Invisible Boundaries* exhibit at the Peabody Museum.



Thank You Alumni Volunteers!

Thank you to all of the F&ES alumni who volunteer their time in support of current students, each other, and the School! Alumni host students on job treks and summer internships at their workplaces, assist with prospective student recruitment efforts, and return to campus each year to share their experiences in classrooms, on panels, and at conferences. A large group of alumni help keep their classmates connected to each other and F&ES by serving as Class Secretaries and Class Agents. More than 375 alumni are volunteers in the Environmental Leadership Mentoring (ELM) program. Still others host regional alumni events, provide guidance to students at networking receptions, organize Yale Day of Service projects, and volunteer to organize informal meet-ups at conferences. Thank you all for your dedication to the F&ES community!



1 Nearly 100 students visited 29 organizations in D.C., many with alumni hosts, during the D.C. Job Treks organized by the Career Development Office in February. At one job trek, a team of alumni hosted students at the U.S. Forest Service.

2 A decade after publication of the book “Diversity and the Future of the U.S. Environmental Movement,” book editor/contributor Emily Enderle '07 M.E.M. organized a panel of environmental leaders on campus in November to share their perspectives. Pictured here are panelists (left to right): Reverend Mitch Hescox, President/CEO of the Evangelical Environmental Network; Erika West, Principal at the The Raben Group; and Marcelo Bonta '95 B.A., book contributor and Founder of the Center for Diversity & the Environment, with Emily (right), who is also a member of the F&ES Alumni Association Board, moderating.

3 Alumni joined recently admitted students at a networking reception in the Bay Area in March, where they shared personal experiences and helped encourage the admitted students to join the Class of 2020. The event was held at the headquarters of The Nature Conservancy (TNC) in San Francisco, hosted by Grant Mulligan '15 M.E.M., who works for TNC.

4 A new series of Professional Skills Modules (PSMs), designed to provide essential training for all F&ES students, launched this year. Topics include communication, negotiation, and fundraising, among others. Alums like Brian Goldberg '03 M.E.M. (right, facilitating the Project Management PSM) have provided crucial insights and leadership in the development of the PSM program. This PSM included a panel focused on “Managing Environmental Projects: Practitioner Insights Across Diverse Scales, Stakeholders, and Sites” with panelists (left to right) Casey Pickett '11 M.E.M./M.B.A., Lindsay Crum '15 M.E.M., and Justin Freiberg '10 M.E.Sc.

5 Alumni connected with students at mentoring dinners while students were in D.C. for Job Treks. The dinners were hosted by the Career Development and Development and Alumni Services Offices.

6 This spring, Alex Finkral '97 M.F., '05 Ph.D. (sixth from right) hosted part of the southern forestry field trip in Florida. “My forestry colleagues and conservation collaborators in Florida who helped host the tour were blown away by the students’ degree of curiosity and engagement, on both professional and personal levels,” said Alex, who is also a member of the Alumni Association Board. Mike Ferrucci '81 M.F. (sixth from left) led the students on the southern trip for F&ES.

D.C. Alumni Provide Career Guidance to Students

Thank you to all of the F&ES alumni who joined in the 2018 D.C. Alumni-Student Networking Reception on February 16th. Participating in this annual event is a meaningful way to give back to F&ES by providing guidance to current students as they explore career opportunities in D.C.

The event took place at the headquarters of the World Wildlife Fund (WWF), hosted by two F&ES alumni: Kerry Cesareo '01 M.E.M., Vice President, Forests, and Akiva Fishman '15 M.F., Senior Program Officer, Forests. "There are a number of F&ES alumni working at WWF around the world; hosting the student-alumni reception was a wonderful opportunity to deepen that connection," said Kerry.

During her remarks, Kerry described the ways in which F&ES influenced her career trajectory and mentioned the many alumni she has had the opportunity to collaborate with professionally.

More than 175 alumni and students participated. Alumni shared job and internship opportunities, provided guidance to students in their areas of expertise, and networked with fellow alums.

Special guest Dean Indy Burke noted how impressed she was by the level of alumni support for students and each other, both during this event and overall.

Dean Burke provided an update on the F&ES Strategic Plan implementation process, including the hiring of a new Assistant Dean of Community and Inclusion, Thomas Easley. After being introduced, Thomas shared his experiences from his first few weeks at F&ES. (See page 5 for additional details.)



1 Alumni provided career guidance to students in their fields of expertise during the reception.

2 Thomas Easley (center), Assistant Dean of Community and Inclusion, had the opportunity to meet many alumni during the D.C. event.

Thank you to the World Wildlife Fund for generously providing F&ES with space for the event, to Kerry and Akiva for serving as alumni hosts, and to the members of their WWF team who helped make the event possible.

This event was sponsored by the F&ES Development and Alumni Services Office and the F&ES Career Development Office during the annual CDO-organized career event titled FESinDC.



Alumni Career Resources

Alumni can access job and internship opportunities, post jobs and internships for viewing by students and fellow alumni, and request a resume book of current students for their organization through the F&ES Career Development Office.

environment.yale.edu/careers/

Alumni at World Wildlife Fund – Making an Impact

F&ES alumni are leading many innovative programs for World Wildlife Fund (WWF) based here in the U.S. and around the world. These alumni are collectively making a significant impact at country, regional, and global scales. This map depicts their geographic bases and regions of impact.

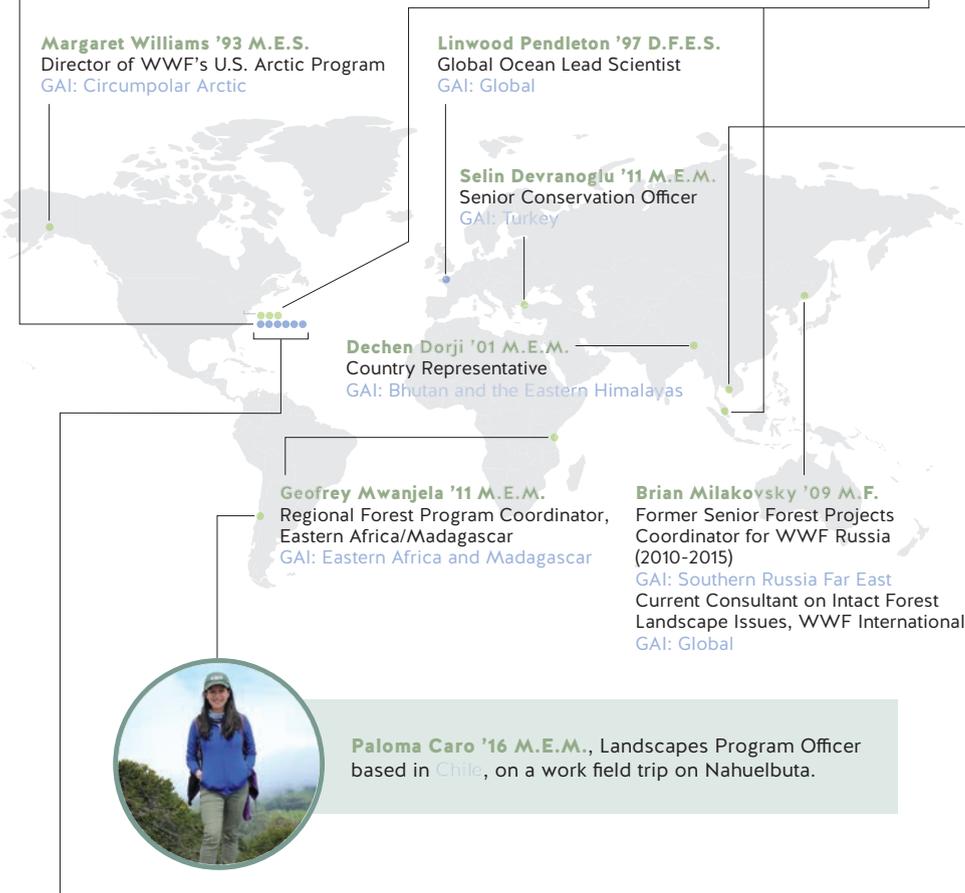
“The opportunities afforded by F&ES set me on the path to where I am today. Through coursework on partnerships and a Yale Forest Forum-organized internship working with First Nations in British Columbia, I was able to explore market-based conservation and get involved in the early days of forest certification. Looking back over the past 15 years, the bulk of my tenure at WWF-US has been working on and ultimately leading our forest markets work. My career trajectory links directly back to F&ES.”

Kerry Cesareo '01 M.E.M. | Vice President, Forests, WWF | GAI: Global

Many alumni at WWF have opportunities to collaborate with other alums, within WWF and at partner organizations.



Margaret Arbuthnot '11 M.E.M. (Manager, Responsible Demand Project, Good Growth Partnership, who is based in Washington, D.C. and focused on [Indonesia](#), [Brazil](#), [Singapore](#), [Paraguay](#), and [Sierra Leone](#)) and **Keith Lee '11 M.E.M.** (Sustainable Finance Engagement Manager, who is based in Malaysia and focused on [Singapore](#), [Malaysia](#), and [Indonesia](#)) connected at a WWF workshop in Oxford.



Teak Seng '03 M.E.M.
Country Director, WWF-Cambodia
GAI: South East Asia's Greater Mekong Sub-region



What is an example of an initiative you have led that has made a conservation impact?

“I successfully convinced national and provincial governments to subsume WWF’s role and authority in the decision-making and management of river dolphins. This spring, after decades of seemingly irreversible decline, results from a WWF and Government of Cambodia census showed that the population of critically endangered river dolphins in the Mekong has risen from 80 to 92 in the past two years – the first increase since records began more than twenty years ago.

“I also orchestrated and brought together three ministers, four provincial governors, key ambassadors, representatives of financial institutions, UN agencies, Civil Society Organizations, and over 2,000 local communities to celebrate and launch the Eastern Plains Landscape Initiative.

“I strongly believe WWF can make a difference in Cambodia and in the Mekong region by aligning its efforts around a shared collective, taking global action, and increasing focus on and prioritizing focal places and species.”

In what ways did your experiences at F&ES as a student make an impact on your career?

“F&ES equipped me with appropriate technical knowledge and skills which provided me with the credibility and the confidence to meaningfully engage and influence decision-makers on important conservation issues. Where I am today and all the successes I have had are due to F&ES.”

This interview was edited for length and clarity.

- = Country or Regional Focus
- = Global Focus
- GAI = Geographic Area of Impact

Roberta Elias '01 M.E.M.
Deputy Director, Marine and Fisheries Policy
GAI: Global

Akiva Fishman '15 M.F.
Senior Program Officer, Forests
GAI: Global

Rachel Kramer '12 M.E.Sc.
Senior Program Officer, WWF TRAFFIC
GAI: Global (Illegal Wildlife Trade)

Linda Kramme Walker '06 M.F.
Director, Responsible Forestry and Trade
GAI: Global

Karen Petersen '13 M.E.M.
Program Officer, Forest and Climate
GAI: Global

Anita van Breda '93 M.E.S.
Senior Director, Environment/Disaster Management
GAI: Global

Mona Wang '13 M.E.M.
Program Officer
GAI: Colombia, DRC, Guyana, Indonesia, and Peru

Yiting Wang '14 M.E.Sc.
Program Development Manager
GAI: China, Africa, and Southeast Asia

Dean Indy Burke and Alumni Volunteer at Yale Day of Service

May 12, 2018 marked the 10th year of Yale Day of Service, with alumni from across Yale volunteering at more than 250 service sites around the world.

Dean Indy Burke volunteered with alumni in Texas at Pedernales Falls State Park, at a Yale Day of Service project hosted by three F&ES alumni: Carter Smith '97 M.F.S., Executive Director of the Texas Parks and Wildlife Department (TPWD), along with Daniel Oppenheimer '11 M.E.M. and Katherine Romans '13 M.E.M., who work for the Hill Country Alliance (HCA). TPWD and HCA frequently partner with each other on conservation projects; the Yale Day of Service event was organized and led collaboratively by the two organizations, with support from the F&ES Office of Development and Alumni Services and the Yale Club of Austin.

Throughout the day, participants learned from TPWD and HCA staff about ongoing projects taking place in the area and contributed to critical conservation projects focused on riparian restoration and wildlife habitat improvement.

A few hours after the service project, local Yale alumni gathered for a reception with Dean Burke at Lambert's Downtown Barbecue in Austin.

Thank you to Carter, Daniel, and Katherine for making this Yale Day of Service project in Texas such a success!



3 Volunteers learned about riparian restoration projects underway along the Pedernales River from TPWD and HCA staff. During the afternoon, children of alumni enjoyed learning how to seine for fish and identify them.



1 More than 30 alumni volunteered at the Yale Day of Service project organized by F&ES alumni at Pedernales Falls State Park in Johnson City, Texas.

2 Volunteers, including Dean Indy Burke and Chuck Dvorsky '80 M.F.S., cleared brush under mature oak trees to prepare for a prescribed fire that will promote groundwater infiltration and improve native wildlife habitat.

F&ES alumni led Yale Day of Service projects and volunteered across the globe. At Yale-Myers Forest (YMF), students and alumni volunteered in the Forest Orchard, a student-initiated agroforestry project funded, in part, by the Class of 1980 Project Fund. They helped with rototilling, mulching, mushroom inoculation of logs, and other spring projects, and also had a chance to tour the rebuilt YMF camp and new research facilities. Current students Dylan Cicero '19 M.E.M. and Jaclyn Kachelmeyer '19 M.E.M. organized and led the projects.



Alumni Lead F&ES Student Field Trips

Here are just two examples of the many hands-on learning opportunities students participate in during their time at F&ES.



Western Forest Crew 2018

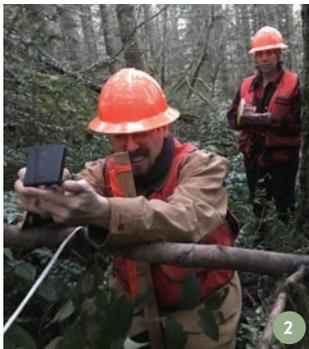
The Western Forest Crew (WFC) is an intensive three-week field trip designed to provide students with applied experience in Western forest management. This year's trip was the second iteration and the first to the Northwest.

This winter's WFC took place from December 22, 2017 – January 14, 2018 in cooperation with the Hama Hama Company of Lilliwaup, Washington and the Washington Department of Natural Resources (DNR), Shelton Office. F&ES alumni Tom James '09 M.F.S., '16 Ph.D. (1 on the left), Hama Hama Forest Manager, and Kendra James '01 B.A., '12 M.F., Hama Hama President, served as the primary hosts for the trip.

The WFC provided three F&ES students and one staff member (Rob Turnbull '19 M.F., Tyler Gibson '18 M.E.M., Nick Olson '16 M.F., School Forests Manager, and Jessica Wikle '18 M.F.S.), with government trainings, fieldwork experience, and professional development opportunities in the American West.

The WFC focused on the challenges of operations and timber markets in Washington State. To assist Hama Hama in a subsequent timber harvest, the WFC performed a site assessment and laid out the sale by marking boundaries, leave trees, and root rot pockets. Additionally, the crew spent three days with the Washington Department of Natural Resources, conducting site visits and assisting with various tasks, including laying out and surveying a new forest road for a future timber harvest on DNR land. (2 3)

– Nick Olson '16 M.F., School Forests Manager



ELTI Trip to Panama

A group of students traveled to Panama during the spring break for a hands-on learning experience in tropical forest restoration. The trip was organized and led by staff from the F&ES-based Environmental Leadership and Training Initiative (ELTI).

Their activities focused on learning about the ecology and productivity of an intact dry tropical forest and using this understanding to measure degradation of soils, water quality, and biodiversity in relation to a variety of land uses. The long-term objective is to restore these lands to second growth, plantations, and/or a variety of agroforestry systems, with the restoration approach based on the land holders and their use values.

Students attended lectures, visited demonstration sites, conducted field exercises and measurements, analyzed and presented data, and met with landowners.



1 Gillian Bloomfield '10 M.F.S. (front right), Coordinator, ELTI Online Training Program, with students in the field in Panama.

2 Jacob Slusser (right), Coordinator, ELTI Panama Program, leading an exercise in which students analyze the effect of topography on forest soil conditions.

3 Students measuring the DBH and crown size of trees in a native species tree plantation in Panama.



The Forests Dialogue – A Global Impact

The Forests Dialogue (TFD) was created in 1998 to provide international leaders in the forest sector with an ongoing, multi-stakeholder dialogue platform and process focused on developing mutual trust, a shared understanding, and collaborative solutions to challenges in achieving sustainable forest management and forest conservation around the world. Prior to TFD’s founding in 1998, there was no ongoing neutral, international, and multi-stakeholder dialogue for critical forest issues.

The goal of TFD is to reduce conflict among stakeholders over the use and protection of vital forest resources. Since its founding, TFD has brought together more than 3,000 diverse leaders to work through compelling forest issues such as locally-controlled forestry, forest certification, inclusion of women in the forestry sector, and intensively managed planted forests in key geographies, primarily in Asia, Africa, and Latin America.

In its early years, TFD focused primarily on building trust and establishing relationships among its diverse dialogue participants. As TFD has matured as a platform, it has been able to effectively leverage the strength of relationships in its vibrant network to achieve substantive, tangible outcomes in landscapes around the globe. With modern forest issues now extending far beyond the forest sector to include other sectors and actors, TFD has been proactive and adaptive in expanding its platform in order to bring all relevant stakeholders and landscapes into its process.

Recently, TFD has also expanded its engagement with the F&ES community. In the last school year, more than 40 students directly worked with TFD as student associates supporting dialogue logistics and content, as summer research fellows, or as participants in professional skills development modules on facilitation, stakeholder engagement, and meeting planning. For the first time, TFD trained a cadre of students to facilitate break-out sessions of the Scoping Dialogue held in February. “Working for The Forests Dialogue, I have been able to apply what I have learned at F&ES about project design, resource policy, and facilitation to some of the most pressing issues surrounding conservation and development,” said Ethan Miller ’18 M.F.

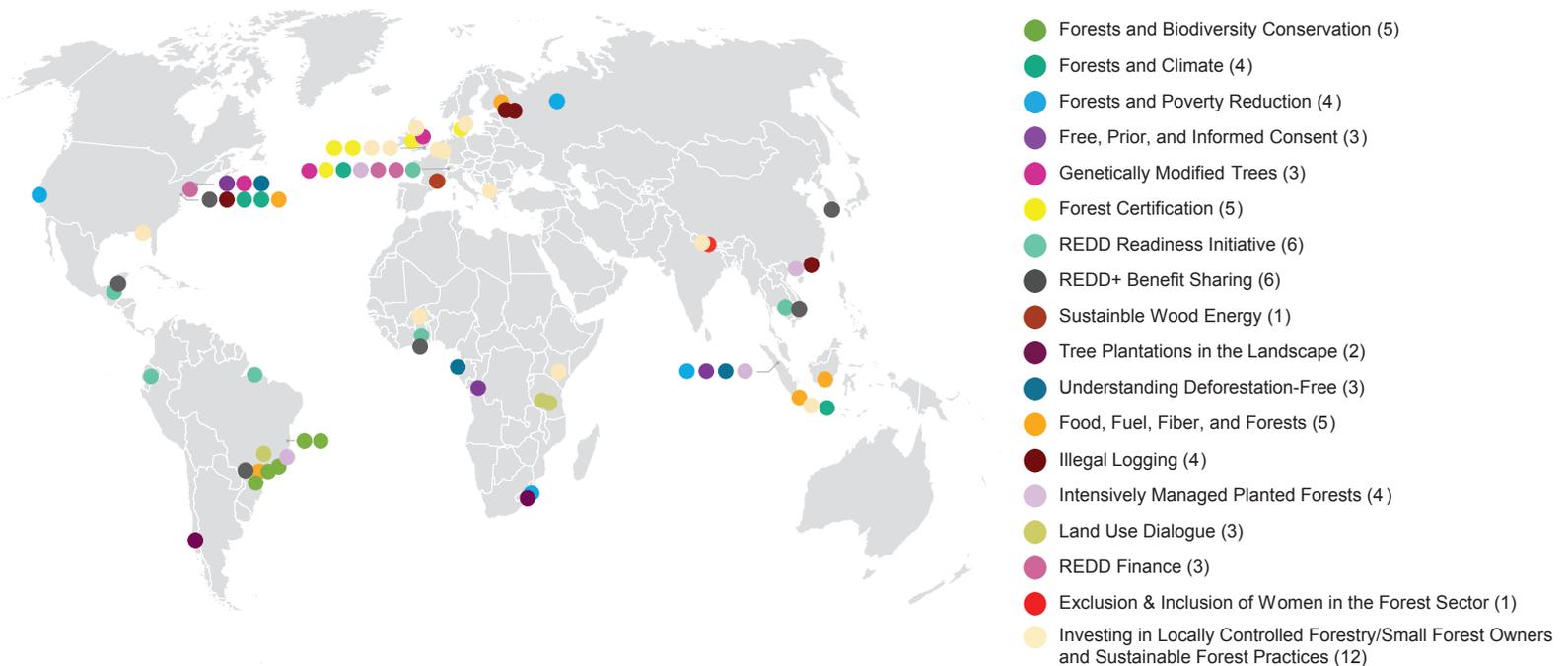
Additionally, TFD engaged with the wider F&ES community by holding “TFD Tea” chats and hosting TFD Week at F&ES which involved planning panels and talks featuring Steering Committee members. F&ES alumni continue to be engaged in the work TFD does, from participating in dialogues to joining the Steering Committee to advising field dialogues.

TFD’s growing footprint around the globe is a testament to the success of its dynamic multi-stakeholder dialogue model and its reputation as a neutral, stable, and useful landscape actor.

Learn more about TFD: www.theforestdialogue.org

The map below illustrates the breadth and impact of The Forests Dialogue’s work around the world. Across issues and geographies, TFD has convened over 80 dialogues under 19 thematic initiatives

since 2002 (when TFD held its first international dialogue on Forest Certification) to reduce conflict among stakeholders over the use and protection of vital natural resources.



Gary Dunning '96 M.F. is the Executive Director of The Forests Dialogue (TFD). With over 25 years of experience working on forest-related issues and leading multi-stakeholder dialogues, Gary's career has been shaped by a deep interest in and commitment to connecting people to decision-making processes pertaining to the management and use of natural resources.

As a Peace Corps volunteer teaching agroforestry and forest extension techniques in Kenya, Gary learned early on the challenges of forest conservation in practice and the fundamental importance of meeting and balancing the needs of diverse stakeholders in a landscape. This formative experience led Gary to F&ES, where he credits his faculty mentor, Dr. John Gordon, Professor Emeritus and former Dean of the Yale School of Forestry & Environmental Studies, with channeling his interests and passion into the world of forest-centric multi-stakeholder dialogue.

Inspired by his internship with the Seventh American Forest Congress – a large multi-stakeholder body for discussion of U.S. forest policy –

Gary saw a real need and opportunity for F&ES to use its history of thought leadership to create a platform and programs for aligning stakeholders and including F&ES students in the discussion of global forest issues. This ultimately led Gary to manage the Yale Forest Forum for several years before becoming the founding Executive Director of F&ES's Global Institute of Sustainable Forestry (GISF) and leading TFD.

Through the work of many, including Scott Wallinger '61 M.F., TFD's permanent secretariat has been housed at Yale since 2000. Through Scott's guidance as a founding member of TFD's Steering Committee and Gary's continued leadership, TFD has earned its recognition among diverse stakeholders as being a powerful, ongoing, international platform for collaborative, solutions-oriented dialogue.

A firm believer in dialogue as a tool for stakeholder empowerment, Gary is quick to point out that the myriad outcomes achieved through TFD's activities over the past 18 years have come only through the vision and active ownership of its Steering Committee members, dialogue participants, and international local partners.



Peter Umunay '14 M.F.S. and Ph.D. candidate, Gary Dunning '96 M.F., and Heather Arrowood '07 M.E.Sc. at a TFD field dialogue in Gabon.

A Closer Look

Land Use Dialogue 2017: Tanzania



TFD's Land Use Dialogue (LUD) initiative aims to create ongoing locally-driven stakeholder engagement platforms to support the implementation of a landscape approach in various high-risk deforestation landscapes throughout the world. The LUD seeks to explore and, where possible, reconcile stakeholder visions, perspectives, and priorities in the landscape while supporting the identification and implementation of programmatic solutions.

The most recent Land Use Dialogue took place in June 2017 in Southern Tanzania. Considered the breadbasket of the country, the region has a concentration of agricultural activities, numerous fresh water resources, and high soil productivity. A participatory and integrated approach is needed to reconcile the different land needs and uses in pursuit of sustainable land use and inclusive economic growth. The LUD covered four days of field and plenary sessions supported by breakout sessions. It drew a total of 83 participants representing the government, civil society organizations, the private sector, smallholder farmers, and community representatives. One of the key outcomes of the platform thus far is the prioritization by Tanzania Land Use Commission to address specific identified challenges in the region's village land use planning process.

Student-Led Environmental Film Festival Celebrates 10-Year Anniversary

This year marked the 10th year of the Environmental Film Festival at Yale, known fondly as EFFY. Over the years it has garnered a large, loyal audience that returns annually to see the films, learn about important issues of the day, and meet experts in the field.

EFFY 2018 kicked off on April 4th with a 10th Anniversary Gala to celebrate the film festival since its founding and to examine the future of science in media. At the Gala, EFFY Founder Eric Desatnik '10 M.E.M. told two moving stories in which the main characters were motivated by film to change the courses of their lives and achieve something they may never have achieved otherwise. **1**

This year's EFFY saw packed audiences for most of its screenings. There is clearly a demand for such impact-driven films. The opening night screening of *An Inconvenient Sequel* included a talk-back with the film's director, Jon Shenk '91 B.A., facilitated by the new F&ES Assistant Dean of Community and Inclusion, Thomas Easley. **2** Back this year was the Student Film Showcase, after which the audience had a lively discussion about how to engage more young people in these important topics, given the myriad of online distractions at their fingertips. An engaging and emotional conversation followed the screening of *Beyond Standing Rock* around the injustices brought upon indigenous communities in the exploitation of resources. *Chasing Coral* won the Grand Jury and Audience Choice Awards for its eye-popping imagery of once-living corals. Winner of Best Short was the beautifully shot film, *Irreparable Harm*, about the leaching of silver mining toxins into a formerly pristine bay in Alaska, where indigenous people could once eat the fish.

Communication is one of science's greatest struggles. Although we have people's best interests in mind, even with what scientists believe are compelling supporting graphs and data, people do not respond well to being told what to do, or more, what to believe. And it has often been to our detriment to disregard the concerns and beliefs of others because they are not based on scientific "fact." Humans have complex ways of thinking motivated by health, love, respect, and community. If we as scientists can't find a way to connect our data to the motivations of the people it's directly affecting, what are we even doing the research for? The sad irony, and perhaps part of the problem, is that scientists tend to disregard communication as a "soft" skill. But luckily, there are more film festivals like EFFY popping up to help scientists bring their work to the real world.

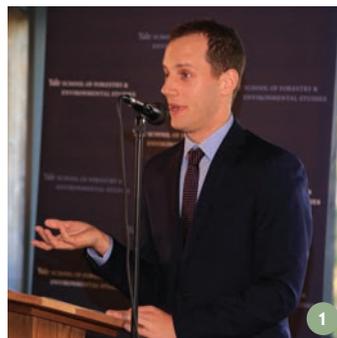
– Emma Crow-Willard '18 M.E.M., EFFY Director

3 Students on this year's EFFY Leadership Team (left to right): Abby Snyder, Caroline Hobbs, Sanna O'Connor-Morberg, Elise Gilchrist, Emma Crow-Willard, and Jesse Callahan Bryant.

4 A panel discussion about the state of the food system was held after the screening of the Anthony Bourdain film *Wasted! The Story of Food Waste*, moderated by James Souder '18 M.E.M.

5 Dean Indy Burke and Star Childs '76 B.S., '80 M.F.S. at the EFFY Gala. The Class of 1980 Project Fund has provided funding support for EFFY since its inception.

6 Founder of the Environmental Film Festival in the Nation's Capital, Flo Stone, chats with founding members of EFFY Richard Miron '13 B.A. and Eric Desatnik '10 M.E.M. at the EFFY 10th Anniversary Gala.





7-9 Gala attendees spent the evening connecting and celebrating 10 successful years of EFFY.

Alum Reflects on 10 Years of EFFY

In an interview, Eric Desatnik '10 M.E.M., founder of the Environmental Film Festival at Yale when he was a student, discussed the original vision for the festival, how it has evolved over the past decade, and why film is such an important medium for telling environmental stories.

What was the original vision for EFFY?

I think science communication in general is an underrepresented and undervalued field, but should be a more important focus at F&ES. The vision was that EFFY could not only be a platform for environmental, and related, documentaries to inspire the Yale and New Haven communities, but also shine a spotlight on the need to distill often-complicated environmental issues into digestible and compelling formats and stories, which I think can benefit everyone at F&ES no matter their specific area of study.

Since the beginning, EFFY has regularly included events to involve the greater New Haven community. Was that always part of the plan?

Absolutely, this was part of the vision since day one. “Free and open to the public” were our two core tenets. We are fortunate to have the resources to bring in these films and speakers; I don’t think we should be setting up barriers to dissuade the community from attending and being inspired by these films and events.

What observations do you have as you reflect back on the first 10 years of EFFY? How do you think EFFY will continue to evolve in the next 10 years?

I am thrilled with the continued enthusiasm and professionalism that F&ES students have brought to EFFY over the years. I look forward to working with the current and former EFFY leadership to map out how we can continue to inject fresh ideas, grow the EFFY platform, and scale its impact.

The 2018 EFFY Leadership Team invited all of the alumni who helped organize EFFY since its founding to the Gala. They also held a special alumni brunch in the Penthouse of The Study on April 7th. During the brunch, alumni and students reflected on the first 10 years and planned for the future of EFFY.

Left to right: Emma Crow-Willard '18 M.E.M., Dana Patterson '17 M.E.M., Mary Fischer '10 M.E.M. (founding member), Eric Desatnik '10 M.E.M. (founding member), Richard Miron '13 B.A. (founding member), Cathy McConnell '85 M.F.S., Rachel Gulbraa '18 M.E.M., Don Mosteller '15 M.E.M. (via Skype), Kendall Barbery '14 M.E.Sc., Caroline Hobbs '18 M.E.M., and Elise Gilchrist '19 M.E.M.



'We Put Our Faith in You': A Call for Leadership as the Class of 2018 Graduates from F&ES

On Monday, May 21, the Yale School of Forestry & Environmental Studies held its 117th Commencement ceremony, conferring master's degrees and Ph.D.s to graduates who are well-equipped to tackle the many environmental challenges facing the U.S. and the world.

"We put our faith in you. You are among the most brilliant, passionate, strategic and energetic individuals I have ever known," said Dean Indy Burke in her Commencement address. "You will be leaders, as are our other 4,900 alumni all over the world – making a difference in NGOs, state and national and international agencies, and universities, and companies, and local communities.

"Today we launch you upon the world, another 156 environmental leaders and scholars to move the world forward."

The class included 34 joint-degree students, including the first group of students to receive a combination of Master of Environmental Management and Master of Science in Environmental Engineering from Tsinghua University in China.

Class speaker Brunilda Pizarro '18 M.E.Sc. reminded her classmates that issues of injustice experienced by Black, Brown, and indigenous people are often connected to conditions they experience in the environment. In her remarks, she applauded her classmates who have spoken up for marginalized voices and challenged the School to recognize its own shortcomings in addressing inequality in the environmental movement – and in the city of New Haven itself.

"How can we claim to be experts and engage with environmental issues abroad if we have not been able to confront the stark racial and socioeconomic realities in our own backyard?" she said. "We have a moral obligation to do more."

She thanked those classmates whose advocacy prompted important discussions within the School community on the impacts of deeply rooted environmental injustice, as well as those faculty and staff members who have been receptive to these difficult discussions. These discussions, she said, have brought hope of "transformative change."

"The students who have engaged in this process operated from a premise of love," she said. "As a result, I hope that F&ES continues to be a premier environmental school, one that is inclusive of varying perspectives and, beyond scholarship, stands boldly as a school that is intolerant of racism and is led by its moral compass. After all, excellence begins with our own internal transformation."

Emily Sigman '19 M.F./M.A. – who, like Pizarro, was chosen by her classmates to be class speaker – playfully blew bubbles as she noted that being part of the Yale community is not unlike being in a "bubble," apart from the rest of society. She noted that her decision to attend F&ES was not one she took lightly. She explained that she received her Yale acceptance letter just days after her third round of cancer treatments. "The Universe asked me in that moment, 'Is this where you would go if you knew it would be the last place you ever went?' And I said yes. Something in me knew that this was the bubble for me."

"F&ES, in this bubble, you sang me songs about plants, and rode bikes with me to the beach, and shared food with me at your potluck dinners," she said. "You helped me find shelter beneath the shrapnel and falling debris of what used to at least masquerade as a functioning political system. You kept me awake to the persistent injustices of a world that still insists on systemic oppression, even and especially within our own walls. You planted seeds with me. You helped me grow a garden in a courtyard. You helped me tend a forest in my soul."

After graduating, she noted, the Class of 2018 would no longer be in a "bubble," but instead would become part of "a magnificent network, a shimmering array of filaments spread across the cosmos, alight with connections and reconnections and the flashes of ideas and action that can – that must – do the work that needs to be done."



- 1 Graduates proceed to the Yale Commencement exercises on Old Campus, led by flag bearer Hannah Peragine '18 M.E.M.
- 2 F&ES graduates heading from Kroon Hall down Prospect Street towards Old Campus.
- 3 Class speaker Brunilda Pizarro '18 M.E.Sc.
- 4 Class speaker Emily Sigman '19 M.F./M.A.

F&ES Award For Excellence as a Teaching Fellow

Bhartendu Pendey, Ph.D. candidate, and Jessica Wikle '18 M.F.S. were recognized for outstanding contributions as F&ES Teaching Fellows during the past academic year. Both were honored for serving as role models to other teaching fellows by setting high standards of professionalism and demonstrating expertise in the practice of teaching.

Strachan Donnelley Award

Coral Bielecki '18 M.E.Sc. was the recipient of the 2018 Strachan Donnelley Award, which honors the graduating master's degree student who, through the combination of coursework, research, and leadership, best achieves Strachan Donnelley's ideal to blend the humanities with ecology and evolutionary biology in order to develop relationships between humans and nature that promote long-term health, social justice, and sustainability. Coral was recognized for her outstanding work blending political and legal issues with the historical and cultural aspects of restoration.

This award is given to honor the memory of Dr. Strachan Donnelley, long-time friend, advisor, and benefactor of the Yale School of Forestry & Environmental Studies. This year's recipient also received a copy of "Frog Pond Philosophy" written by Strachan Donnelley '64 B.A. and edited by Ceara Donnelley '04 B.A., '09 J.D. and Bruce Jennings.

Ph.D. Recipients

The School's graduating class included 12 Ph.D. recipients who are tackling a diverse range of environmental challenges, from installing solar plants on U.S. public lands and verifying the legality of forest product markets, to improving salt marsh ecosystem function and evaluating the link between air pollution and birth outcomes.



1 Dean Indy Burke and faculty leading the Class of 2018 to the F&ES Commencement ceremonies under the tent in the Kroon courtyard.

2 Left to right: Coral Bielecki '18 M.E.Sc., recipient of the 2018 Strachan Donnelley Award, with Parfait Gasana '18 M.E.M. and Younten Phuntsho '18 M.E.M.

3 Advisor Michelle Bell (left) with Ph.D. recipient Lan Jin (center) and Dean Burke.

4 Alexandria Moore (left), Ph.D. recipient, with Professor Karen Seto.

Faculty and Staff Awards

During Commencement, the Class of 2018 recognized the dedicated F&ES faculty and staff and presented awards to 10 individuals and departments for their outstanding commitment to the student body.

Supporting Whole Persons

- Mark Bradford, Professor, Soils and Ecosystem Ecology
- Thomas Easley, Assistant Dean of Community and Inclusion
- Kapiolani Laronal, Assistant Director, Yale Native American Cultural Center

Creating an Inclusive Classroom Environment

- Shimon Anisfeld, Senior Lecturer and Research Scientist in Water Resources and Environmental Chemistry

Excellence in Curriculum Design and Pedagogy

- Daniel Gross, Lecturer
- Marlyse Duguid '10 M.F., '17 Ph.D., Thomas G. Siccama Lecturer and Associate Research Scientist

Unsung Heroes

- The F&ES Facilities Department

Bridging Disciplines

- Julie Zimmerman, Senior Associate Dean of Academic Affairs and Professor of Green Engineering
- Susan Clark, Joseph F. Cullman 3rd Adjunct Professor of Wildlife Ecology and Policy Sciences

People's Choice

- Kathy Douglas, Senior Associate Director, Career Development Office

1 Israel "Izzy" Cordero accepting the "Unsung Heroes" award on behalf of the F&ES Facilities Department.

2 Professor Julie Zimmerman (third from left) accepting the "Bridging Disciplines" award from students.



Alumni Pinning Ceremony

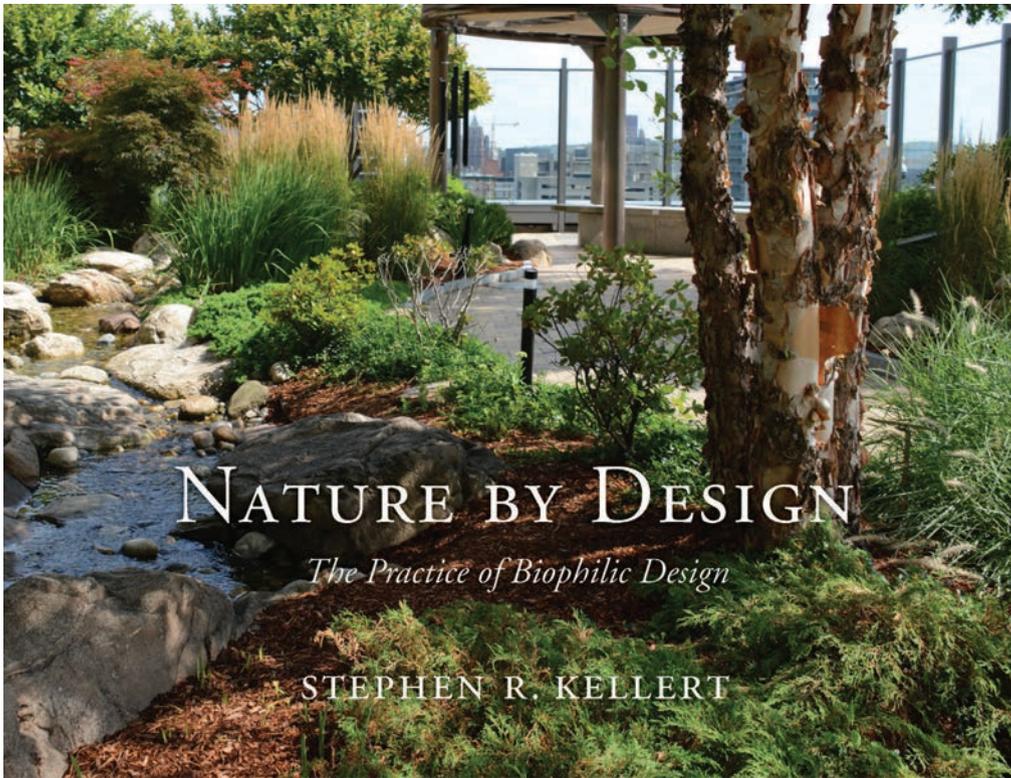


At Commencement, each graduate was given a pin of the F&ES shield as they left the stage with their diploma. The traditional pinning ceremony (shown above) welcomed new graduates as members of the F&ES Alumni Association and the worldwide alumni community. Joe MacDougald '05 M.E.M. (pictured above, right), Alumni Association Board President, presided over the pinning ceremony on behalf of the Alumni Association Board.



Congratulations to the Class of 2018! Welcome to our newest alums!





“Wonderfully illustrated, compelling, and authoritative, ‘Nature by Design’ reveals how application of our innate affinity with nature is so important to design aesthetics. People and the built world benefit profoundly when we embrace this principle.”

Thomas E. Lovejoy '64 B.S., '71 Ph.D. |
George Mason University; Science
Envoy, Department of State

Nature by Design: The Practice of Biophilic Design

Professor Stephen R. Kellert '71 Ph.D., the Tweedy Ordway Professor Emeritus of Social Ecology, was working on completing a visually engaging and compelling new book on biophilic design when he passed away in November 2016. His wife, Cilla Kellert '74 B.A., '81 M.F.S. worked closely with publisher Jean Thomson Black '75 M.F.S. at Yale University Press to finish and publish “Nature by Design: The Practice of Biophilic Design.”

Biophilia is the theory that people possess an inherent affinity for nature, developed during the long course of human evolution. Professor Kellert’s research into understanding the connections between people and nature led to his pioneering work on biophilic design, an innovative approach to building places in a manner that bridges the growing divide between people and nature – an “architecture of life” that promotes health and wellbeing.

In the new book, published this April, Professor Kellert describes the basic principles and practices for successfully implementing biophilic design. He demonstrates what is – and isn’t – good biophilic design, using examples ranging from workplaces to healthcare facilities to schools.

“Professor Kellert’s engaging discussion explores how design can embrace the essential connections between people and nature,” said Jamie Williams '86 B.A., '89 M.E.S., President of The Wilderness Society.

The photographs throughout the text depict innovations in design that maintain and enhance these essential connections.

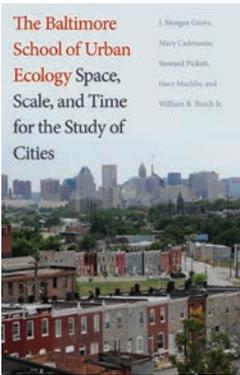
Featuring over 100 striking images of designs from around the world, “Nature by Design” will appeal to architects, designers, engineers, scholars of human evolutionary biology, and anyone interested in nature inspired spaces.

For those who were students of Professor Kellert and for those alumni and friends of the School who didn’t have a chance to take a course with him, this book will serve as both a holistic summary of his tremendous insights into biophilic design and as inspiration for creating built environments that are responsive to human biophilic needs. It is a beautiful, accessible book that connects us all to Professor Kellert’s life’s work.

“Some of Steve’s last thoughts were about biophilia and how important it is,” said Cilla Kellert in the book’s afterword. “I hope, then, that this book on biophilic design will be part of his rich legacy to the planet.”

We will be celebrating the publication of “Nature by Design” at an event during Reunion Weekend 2018. Additional details will be sent out to alumni and friends this summer.

Faculty and Alumni Bookshelf

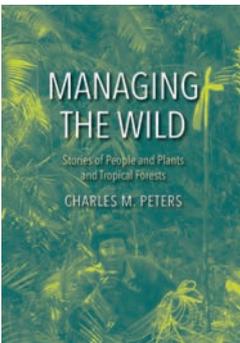


The Baltimore School of Urban Ecology: Space, Scale, and Time for the Study of Cities

By J. Morgan Grove '87 B.A., '90 M.F.S., '96 Ph.D., Mary L. Cadenasso, Steward T. A. Pickett, Gary E. Machlis '79 Ph.D., and William R. Burch, Jr.

A majority of the world's population now resides in cities and their surrounding suburbs. The planning and design of future cities requires attention to such diverse issues as human migration, public health, economic restructuring, water supply, and

climate and sea-level change. This book draws on two decades of pioneering social and ecological studies in Baltimore to propose a new way to think about cities and their social, political, and ecological complexity that will apply in many different parts of the world. Readers will gain fresh perspectives on how to study, build, and manage cities in innovative and sustainable ways.

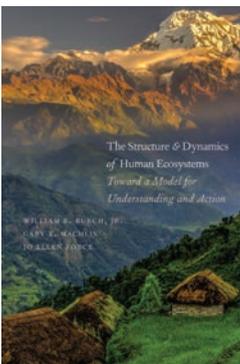


Managing the Wild: Stories of People and Plants and Tropical Forests

By Charles M. Peters '79 M.F.S., '89 Ph.D.

Charles M. Peters '79 M.F.S., '89 Ph.D. is the Kate E. Tode Curator of Botany at the New York Botanical Garden and an Adjunct Professor of Tropical Ecology at F&ES. Drawn from Dr. Peters's thirty-five years of fieldwork around the globe, the absorbing stories in this new book argue that the best

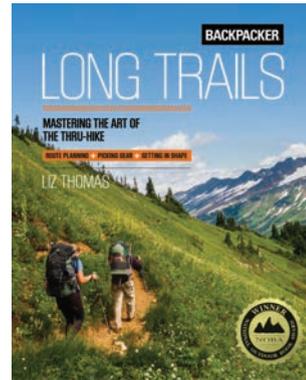
solutions for sustainably managing tropical forests come from the people who live in them. He provides examples such as the Kenyah Dayak people of Indonesia, who manage subsistence orchards and are perhaps the world's most gifted foresters, and communities in Mexico that sustainably harvest agave for mescal and demonstrate a near-heroic commitment to good practices. Dr. Peters's work shows that communities have been doing skillful, subtle forest management throughout the tropics for several hundred years.



The Structure and Dynamics of Human Ecosystems: Toward a Model for Understanding and Action

By William R. Burch, Jr., Gary E. Machlis '79 Ph.D., and Jo Ellen Force

As the world faces ever more complex and demanding environmental and social challenges, the need for interdisciplinary models and practical guidance becomes acute. The Human Ecosystem Model described in this landmark book provides an innovative response. Broad in scope, detailed in method, at once theoretical and applied, this grand study offers an in-depth understanding of human ecosystems and tools for action.

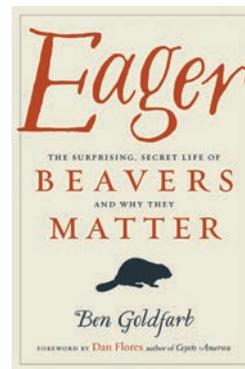


Backpacker Long Trails: Mastering the Art of the Thru-Hike

By Liz Thomas '10 M.E.Sc.

Have you been dreaming of the summer when you can hike the Appalachian Trail? Do you marvel at the snow-capped peaks along the Pacific Crest Trail? Would you like to simply section hike the Continental Divide Trail? In "Backpacker Long Trails," Liz Thomas '10 M.E.Sc., a staff writer at *Wirecutter*, former women's

speed record-holder for the AT, and veteran of 20 long trails, gives you the tools to make this dream a reality. Included is trail-proven advice on selecting gear, stocking resupplies, and planning your budget and schedule. Along the way, enjoy sneak peeks into not only the Triple Crown trails, but also lesser-known long trails throughout North America. Liz's book was recognized with a National Outdoor Book Award in 2017.



Eager: The Surprising, Secret Life of Beavers and Why They Matter

By Ben Goldfarb '13 M.E.M.

In "Eager," environmental journalist Ben Goldfarb '13 M.E.M. reveals that our modern idea of what a healthy landscape looks like and how it functions is wrong, distorted by the fur trade that once trapped millions of beavers from North America's lakes and rivers. The consequences of losing beavers were profound: streams eroded, wetlands

dried up, and species lost vital habitat. Today, a growing coalition of "Beaver Believers" – including scientists, ranchers, and passionate citizens – recognizes that ecosystems with beavers are far healthier, for humans and non-humans alike, than those without them. From the Nevada deserts to the Scottish highlands, they are now hard at work restoring these industrious rodents to their former haunts. "Eager" is a powerful story about one of the world's most influential species, how North America was colonized, how our landscapes have changed over the centuries, and how beavers can help us fight drought, flooding, wildfire, extinction, and the ravages of climate change.

Class Notes

F&ES Alumni Accomplishments, Pursuits, and Adventures

F&ES alumni are collectively making an incredible impact around the world. Thank you to all of you who shared updates for this edition!

We would like to hear from even more of you – send updates to your Class Secretary or alumni.fes@yale.edu.

1951

Class Secretary: Peter Arnold
arnoldp@sbbmail.com

Peter Arnold writes: “Four of us of ’51 still remain in touch, far flung though we are – **Les Bradford** in Mt. Vernon, Wash., **Gerry Fitzgerald** in Rochester, N.H., **Bob Curtis** in Olympia, Wash., and myself in Grass Valley, Calif. Les, Bob, and I correspond via email, but Fitz, ever the Luddite, will have nothing to do with cyber life, so it is pen and paper getting in touch with him. Each of us has his own ailments, which I suppose is to be expected when you have slid past 90 as we have. Nevertheless, I still do a bit of hunting and got my annual turkey this spring. Maybe my last, but I hope not. For anyone interested, the Northern California Chapter of the SAF took oral histories of some forty-odd of us dinosaurs, mine included.”
<http://norcalsaf.org/centennial/oral-history-project/>

Please note that in some cases Class Notes are excerpted versions of the original submissions.

Also, unless necessary for providing context, all Yale degrees other than F&ES degrees are not listed in this section.

1961

Class Secretaries: Karl Spalt and Scott Wallinger
kjspalt@yahoo.com
scott@scottwallinger.com

Paul M. Haack writes: “Greetings fellow master’s degree classmates. Now over 91, I was about 10 years older than most classmates, having received my B.S. in Forestry-Wildlife at the University of Minnesota in 1949 and completing military service. I fondly recall USFS forest research assignments in Michigan, Arkansas, and Oregon, but in 1969 accepted a transfer to the USF&WS research lab in Ann Arbor, Mich., as statistician. Since 1946, I squeezed in about 4,000 miles of wilderness canoeing in Alaska and Canada, on which trips I have been blessed to enjoy the flora and fauna and interwoven ecology.”

Javier Moro writes: “Attending my fruit orchard at the foot of the Sierra de Gredos keeps me busy 16 years after retirement. The orchard is surrounded by many tobacco fields but one also finds some walnut, cherry, and poplar plantations nearby. A little further away one finds the beautiful forest of *Pinus pinaster* at Arenas de San Pedro that I once studied and compared with other provenances of this species in the Iberian peninsula, and found it the best in growth and form along with the Portuguese *Pinus pinaster* in Leiria (*Can.J.For. Res 27(10)*). Unfortunately these exceptional forests are highly threatened by summer fires. Best wishes from Spain.”

Scott Wallinger writes: “In October, I completed an extended term on the Board of the N.C. State Forestry Foundation and made room for some more contemporary experience. I’m still active with the Lowcountry Land Trust that’s working to expand conservation easements around the rapidly growing Charleston metro area. I keep in touch with former classmates and business colleagues, and continue to enjoy seeing the advances in forestry activities around the world. Next month we’ll visit a former Harvard AMP colleague in London and tour western Scotland to see what the changes in Scottish forestry are all about.”

1964

Stephen John Hanover writes: “I still maintain strong support of sound forestry practices and the wood industry that is supported by our forests. The below photo was taken recently while on a tour of New Zealand. Several ports were loaded with debarked *Radiata pine* logs, destined for export. The sites were awesome but inclusion of the sweet resinous aroma was even more astounding. Class mates, where are you?”



1971

Class Secretary: Tom Nygren
tnygren@juno.com

Rory Harrington writes: “Still working and enjoying the skills learned at F&ES with emphasis on ecosystem function, particularly with regard to reanimating functional wetlands for the management of polluted water. I continue to be in contact with a few that I got to know during those halcyon days. Helena and I continue to enjoy life on Crough Farm, where our children and grandchildren learn to appreciate that nature responds well to those that try to understand. To all classmates and staff remembered, kind regards.”

Tom Nygren writes: “Working with small forestland owners is still keeping me busy – I’m gratified to see more and more of the people moving out to live in the rural areas taking an interest in being active managers of their small pieces of forest. The value of developing a close relationship to the land and its health seems to be taking hold in the new ‘settlers’ from the urban areas. As for my wife and I, we’re enjoying living in our forest – taking root in nature!”

Jim Okrazewski writes: “Forestry work is far behind me now. Seems a century ago that Yale was my home for two years. I remain a hospice volunteer in northern Wisconsin, although I live in Michigan, and enjoy that work very much. Somehow this work seems more important than any forestry work I did while employed. Four children are scattered with one son moving now to Puerto Rico with his family to work on a communications project using large balloons up in the stratosphere. It is Good Friday and 18 or more inches of snow still remain, with 8 more predicted tonight. Snow here is of the FISH variety – First Is Still Here. Surrounded by wildlife in these parts; deer, turkeys, coyotes, wolves, otters, fishers. The list goes on. April is a peaceful time here in the Northwoods. White, silent, a place for solitude. A place close to God.”

1973

Class Secretary: Roy Deitchman
rdeitchman@verizon.net

Class Secretary **Roy Deitchman** writes: “The Class of 1973 remains second for the class with the most alumni participation in annual giving! I volunteered this spring to make some telephone calls to accepted students for the Class of 2020. I then realized it would have been like a graduate of the Class of 1924 talking to me about entering the School in 1971. Amazingly the three students in northern Virginia that I spoke with will all be attending the School; two this year and one in 2019.”

1974

Class Secretary: R. Lautenschlager
rlautenschlager@mta.ca

Liz Mikols writes: “We’ve started wind season here in New Mexico. Our five seasons are, in order: winter, wind, summer, spring, and then fall. Come visit and you can see them. Or email me and I’ll explain. I’m off on another trip, this time to Croatia, Montenegro, and Macedonia for about a month. I’ve found that while New Mexico is pretty darn beautiful all the time,

other places are nice to visit in April and May. We have many gorgeous days then, but they’re interspersed with wind and heat. I continue to enjoy very low energy costs with my solar panels. I’m scheduled to give two presentations later this summer on New Mexico history, a hobby that I pursue. Best wishes to all my friends in a variety of F&ES years.”

1975

Class Secretary: Hallie Metzger
hallie.metzger@rcn.com

Jean Thomson Black, at Yale University Press, writes: “I’m publishing some neat new environmental books this spring, including **Steve Kellert’s** (’71 Ph.D.) last book, published posthumously: ‘Nature by Design: The Practice of Biophilic Design’; also, ‘Breakpoint: Reckoning with America’s Environmental Crises’ by Jeremy Jackson and Steve Chapple; and ‘Managing the Wild’ by **Chuck Peters** (’79, ’89 Ph.D.), co-published with New York Botanical Garden Press. And last year, a new book by Bill Burch, **Gary Machlis** (’79 Ph.D.), and Jo Ellen Force, ‘The Structure and Dynamics of Human Ecosystems.’” Class Secretary **Hallie Metzger** noted that “the Wall Street Journal just gave a blockbuster review to Steve’s book. Time to add it to our reading lists!” (See page 38-39 for additional details.)

Alyn Caulk is back at her family practice as a physician in the Navy. She crushed the 4th and 5th fingers of her right hand in a fall: “I tripped into a ‘ceremonial bullet’ and it crashed down. I’ve had 5 surgeries and still have pins in the fingers that won’t be removed for another 2 months or so – so I can’t bend or use these fingers. Anyhow ... the weather is getting really nice ... and NOW I wish I could stay home to work outside and do other things.”

Terry Chester writes: “Second winter living in Sun Valley with all its natural beauty. I spend my time doing grandfatherly duties, exercising, and walking everywhere. I hold the distinction of being the only male Zumba dancer in all-women classes here. I still work at Adbiz.com. Got my vision set to possibly live in Europe soon. I’ve been researching a more civilized country to live in. No more car! Walk and bike everywhere (lots of green space) with some mass transit thrown into the mix. I’m thinking of starting in Germany and possibly getting back into ecology and environmental science by becoming involved in land use, recycling, natural sciences, etc. Time will tell.”

Audrey Hoffer writes: “It’s now been 40 years since Ron and I moved to Washington, D.C. I still credit my conversation with **Suzanne Reed** on a bus coming back from a field trip about working on the Hill in the office of a member of Congress. I was so impressed and wanted to emulate her. And so Washington went on the top of our list of places to move to a couple years later. And we’re still here. I’ve been a freelance writer for the past several years, most often for the *Washington Post* Real Estate section and occasionally for the *Magazine*, *Travel*, or *Style*; and I write sometimes for the *New York Times* and any other publication I can get into. Ron is a consultant to the World Bank after retiring from the EPA and the World Bank. His recent trips were to Zambia. Our son, Marin, 35, is married and living in N.Y.; he has a little girl.”

Dave Kavon sent the below photo of the bonzais he tends in Israel along with this update: “Firstly, all is well here in Israel, including our extended family – children and our 12 grandchildren. After some 26 years of practicing dentistry (different roots and crowns) and managing a large dental clinic here in Jerusalem, I’ve finally retired. Despite my career change, I’ve always maintained my love of chlorophyll, in general, and trees in particular!”



Class Notes

Jayne Levy visited **Steve Levy** in Portland this winter. She writes: “Steve put together a slide show of our trip to Alaska 44 years ago. What a hoot!” Jaynee reports that Steve is in great shape, “still backcountry skiing and backpacking like a college student.”

And **Steve Levy** added: “It’s been quite a year for reunions. My wife Sue and I spent time with **Anne (Skjaerlund) Fege** and her husband, Dave, in San Diego and exploring the Anza Borrego desert during a spectacular wildflower bloom. It was great seeing **Norm Noyes** (’74) in San Diego as well. Then, after many years, I reconnected with **Bob Pyle** (’76 Ph.D.) at the annual Fisher Poets Gathering in Astoria. F&ES keeps on giving. I feel very fortunate in being able to continue to pursue my outdoor passions – mountains, deserts, wildflowers, garden. Life is good.”

Hallie Metzger writes: “**Evan Griswold** got a kick out of a picture I sent of him taken during one of our field trips with Dr. David Smith. We are bundled to the eyeballs while Dr. Smith is wearing a flannel shirt.” Evan responded that he has “such memories of D.M. on those cold Saturday field trips to New Haven Water Company lands.” Evan finds retirement as elusive as ever with important conservation targets either on the market or looming on the horizon.

Helen Waldorf performs with the Yale Alumni Chorus and recently performed a concert in Milton, Mass. She writes: “The chorus is sponsoring an international choral festival in New Haven the second week of June. I am convinced the solution to our current divisive politics is non-partisan. Therefore my efforts have been with the League of Women Voters, Boston, and the ASTM Committee E50 on the environment. Anyone interested should contact me via email.”

1976

Class Secretary: John Lundquist
jlundquist@fs.fed.us

Sally Hasted writes: “I’m still teaching troubled students in a mental hospital, and while the options for fieldwork and experiments are nonexistent, they love my tales of fieldwork at F&ES and in the Geology Department of Smith College, where I did my undergrad work. They love hearing of my crusading and wetlands work in the early days of wetland protection, of setting up a town conservation commission, and of the fun of living for months in the Bahamas and doing tract evaluations in the woods and wild spaces of Connecticut and New York. They also love handling the fossils and minerals we’ve acquired over a lifetime of fun. That said, our generation needs to share such derring-do and outdoor exploration, and our commitment to save the world. Today’s kids entertain themselves only through their electronic gadgets, and are therefore not feeling empowered to step out their front doors and engage with nature. Their hearts are in the right place, they love animals and want ‘nature saved,’ but haven’t a clue that they can become meaningfully involved. The more we can do to provide hands-on opportunities, the better.”

1978

Class Secretaries: Susan Curnan, Marie Magleby, and Regina Rochefort
curnan@aya.yale.edu
lmmagleby@att.net
gibbons.rochefort@gmail.com

Bob Gipe writes: “Last September, I accompanied my wife, Betsy Fine, to Nepal for a five-month stint during which she pursued her Fulbright Senior Scholar grant developing an adolescent pediatric curriculum for a new medical school in the Kathmandu area. As for me, I played tour guide

for groups of family and friends trekking into the Annapurna region and visiting the birth place of the Buddha. I also found time to investigate Nepal’s community forest program and to see the effects of climate change on high-elevation communities. I was particularly impressed with the work of the International Centre for Integrated Mountain Development (ICIMOD), whose research and knowledge-sharing improves the lives of high-elevation populations in the eight-country Hindu Kush Himalaya region. In November, I crossed paths with **Anobha Gurung** (’10, ’16 Ph.D.), who was working at ICIMOD while continuing her studies of air pollution in the Kathmandu Valley.”

1979

Class Secretary: John Carey
carey@aya.yale.edu

Chuck Peters (’89 Ph.D.) reports that he has retired from the New York Botanical Garden after 34 years, and that his new book came out in February. The book, “Managing the Wild: Stories of People and Plants and Tropical Forests,” tells stories from Chuck’s decades of fieldwork around the world, showing how the best solutions for managing tropical forests usually come from the people who live in them. As a review of the book in *Science* says, “Through an engaging blend of natural history, ethnobotany, and personal anecdote, Peters aims to change the perception that local people exploit natural resources with no regard for the future.” (See page 39 for additional details.)

After serving two terms in the Obama administration as Science Advisor to the Director of the National Park Service, **Gary Machlis** (’79 Ph.D.) has returned to university life as Professor of Environmental Sustainability at Clemson University. In 2017, he and Professor Bill Burch saw the publication of “The Structure and Dynamics of Human Ecosystems: Toward a Model for Understanding and Action.” (See page 39 for additional details.) His most recent book, with Jon Jarvis, is “The Future of Conservation in America: A Chart for Rough Water.” Machlis and Jarvis are on a national book tour encouraging a dialogue on the future of conservation.

Robert McKinstry Jr. writes to say that he has retired from the Philadelphia-based law firm, Ballard Spahr: “Although I will still be doing some contract work through Ballard, I will be working on my own, primarily to allow me to pursue public interest environmental cases that I might be precluded from pursuing while ‘Big Law’ partner. In addition to those cases, I am continuing to work on the emoluments clauses litigation against Trump. I was also a plaintiff in Pennsylvania’s successful anti-gerrymandering lawsuit. Finally, last November, I was elected Township Supervisor in East Marlborough Township, Chester County. Along with another Democrat, I was the first Democrat elected in that Township ever (i.e. since we had political parties in the United States, since the Township dates to before the Revolution).” McKinstry and his former wife **Elizabeth “Betsy” Rich** now have four grandchildren. “The latest was born last June,” Bobby writes. “Betsy has moved to Philadelphia, while I’m living on the farm. I’m right next to Longwood Gardens and visitors are welcome.”



1980

Class Secretary:
Sara Schreiner Kendall
sarabskendall@gmail.com

Al Sample ('89 D.For.) has retired as President of the Pinchot Institute for Conservation, and now serves as Adjunct Professor of Environmental Science and Policy at George Mason University in Fairfax, Virginia. He is Board Chair at the Forest Stewards Guild where **Zander Evans** ('97, '06 Ph.D.) is now President, and chairs the Natural Resource Group at the Cosmos Club in Washington, D.C. This past year he welcomed a new grandson, James Alaric Carter, giving fresh impetus to his work on adaptation to climate change.

Jane Sokolow (pictured above with F&ES student Lucy Kessler) writes: "This photo was taken in early February at a Colorado College NYC Climate Change and Sustainability Forum. **Stuart DeCew** ('11) was also on the panel with Lucy and several other CC alums."

RIGHT *Dr. Dusti Becker* ('84) (4th from left), Maasai, and Life Net Nature volunteers in Kenya developing walking safaris to encourage wildlife and forest conservation next to Maasai Mara. The next volunteer project is July 7-20, 2018. She invites alums to join her.

1981

Class Secretaries: Fred Hadley and Gail Reynolds
fhadley@sit-co.net
gail.kalison.reynolds@aya.yale.edu

Martha Davis writes: "I finally pulled the retirement ripcord, well at least technically. Who knew that volunteering could make you work harder than a normal day job? And then there are the dangling projects – little things like establishing the first real environmental water account in California to provide flows for the Delta or establishing the state's first budget-based approach for water efficiency. Things you can't quite walk away from because they do matter. I think often about how F&ES helped to put my feet on this wild career path that led to saving Mono Lake, being part of an executive team for a progressive water agency, and working to transform water policy in the West. Bill, Herb, Tom, Steve, Clark, and all (even in memoriam), thank you. Welcome to all friends to visit my home in West Marin. Ok wine, good music, and great policy debates – just like the F&ES experience."

Bruce Kernan writes: "Over the last year I've worked in Southeast Asia, Ethiopia, and Honduras, and right now I'm in Liberia making an evaluation of a community forestry project. We're still living most of the year in Quito, Ecuador, but will spend this coming summer in South Worcester, New York. There is always plenty of silvicultural work to do in our forest there and also plenty of worrying to do about the eminent arrival of the emerald ash borer and the hemlock woolly adelgid."

Mark Plotkin's new book, "The Amazon – What Everyone Needs to Know," will be published in 2019.

Retirement from classroom science teaching lets **Thea Weiss Hayes** do what she's most excited about at this stage in her life: beekeeping! A great group of folks in Southwest Washington and Portland, Ore. got together to form Preservation Beekeeping, and she is the Council's Resource Coordinator. Learning about and tending to bees and their forage is a joyous journey. Her husband, Angel, is working on this with her, designing and creating items to assist in the process and

climbing when it's called for. Daughter Hanna is now married and in Seattle and Rachel is graduating from the University of Oregon in international studies and moving on to water policy in graduate school. Thea has started a bee and botanical-related handcrafted soap business called SoapWise.

1985

Class Secretary: Alexander Brash
alexanderrbrash@gmail.com

Haydi Boething Danielson is back working with her family wholesale nursery business in California. She is also the President of the Board of California ReLeaf, a state-wide umbrella nonprofit, with 100 members, empowering grassroots efforts to preserve, protect, and enhance California's urban and community forests.



Class Notes

1986

Tom Duffus writes: “I am loving life in Maine, especially seeing **Bob** and **Libby Moore** ('87) frequently and continuing my march to conserve as much northern forest as I possibly can before I croak.”

1987

Class Secretaries: **Christie Coon** and **Melissa Paly**
christie.coon@gmail.com
mpaly01@gmail.com

Chris DeForest writes: “Participating in F&ES Reunion Weekend last fall was the highlight of my year, reconnecting with such dear friends and sharing stories of past and present glories. **Josh Royle**, **Annette Naegel**, and **Naomi Rush Olson** started us singing *Dona Nobis Pacem* at the end of our Big Chill Goes VRBO weekend. It inspired me to enroll in voice lessons. And I'm happily the Conservation Director at our regional land trust, and Caroline and the boys are doing well here in Spokane.”

1988

Diane Stark, **Philip Voorhees**, and **Holly Welles**
salserad@yahoo.com
philiphvoorhees@gmail.com
hwelles@princeton.edu

Jennifer Allen writes: “I'm enjoying teaching environmental and natural resource policy and sustainable development at Portland State's Hatfield School of Government, and also serving as an Oregon State Parks Commissioner (which provides lots of great opportunities to visit our amazing parks across the state) and as Board Chair of the World Forestry Center. Wayne and I spend a lot of time at the Oregon coast where we have a log cabin in the woods above tsunami line, and enjoy romping with our new family member O'Reilly (a 7-month-old yellow lab).”

Bill Condon writes: “We not long ago moved back to behind the Redwood Curtain after a seven year stint in Sacramento. Last December, I retired from the California Department of Fish and Wildlife (recall I was in the older 'age class' of our F&ES cohort). I guess since I was with the Department so long (26 years), or for just being stubborn,

they made me the Department's State Coordinator of its Timberland Conservation Program, and for good measure, appointed me as the Department's liaison to the California Board of Forestry and Fire Protection. During these past few months of retirement, splitting wood in the rain and composting has been good therapy for my Board-related PTSD. We are thinking about pygmy goats to keep the invasives at bay and I'm using my forestry license to cut a few redwoods on Julie's land.”

Stephen Gorman writes: “Mary and I are still in Norwich, Vermont, with our 12-year-old German Shepherd, Josie, and I am still travelling throughout the Arctic in the company of Inuit and polar bears – from the Arctic National Wildlife Refuge in Alaska, through the Northwest Passage in Canada, to far northern Greenland – documenting the environmental and cultural changes taking place at the top of the world. My next book on the North will be out in 2020.” (See photo on page 59.)

Mike Gregonis writes: “It is hard to believe that this year will mark the 30th anniversary of exiting F&ES. As far as my biography goes, I continue to work for the Connecticut Department of Environmental Protection, Wildlife Division, managing wild turkeys, white-tailed deer, ruffed grouse, cottontail rabbits, and gray squirrels. The job remains a challenge to balance the requirements of the species with the desires of the public. My off time is spent pursuing a variety of fish from Long Island Sound in Conn. and N.Y. to Laguna Madre in south Texas. During the fall my pursuits turn to the harvest of deer, turkeys, and waterfowl. I pretty much live off the land with a garden and the game I harvest. Hope to see everyone in October.”

Anthony Irving writes: “Just turning 70 and thinking of retiring – but no, there is still so much to do, and I would just end up involved with the same things I'm already doing. I'll reconsider at 80.”

Brian Lockhart writes: “I am a research forester with the U.S. Forest Service, Center for

Bottomland Hardwoods Research, in Stoneville, Miss. (although I live across the Mississippi River in southeast Arkansas). Also, I feel fully recovered from quadruple open-heart surgery in December.”

Karen McKay writes: “A current snapshot of my life is pretty easy: wine. I work at a winery in the Willamette Valley (land of pinot noir) and I have aspirations to continue in the business. Or just drink more wine. Or both. The best part of my life is my kids who are way more impressive than I am. One is an agroforester in Senegal with PC (we just got back from a visit) and may actually apply to F&ES. The other lovely child has gone into health care so that she can take care of me in my old age.”

Eric Jay Dolin writes: “My new book will publish on September 18 – “Black Flags, Blue Waters: The Epic History of America's Most Notorious Pirates.” I have many talks scheduled throughout New England and beyond, so if you are in the area, please come and say hello (you can find the list at www.ericjaydolin.com). My son heads off to college this year, joining his sister in the pursuit of higher education, so Jennifer and I will be empty-nesters, which will hopefully translate into more traveling!”

As of writing this **Jeff Campbell** was stranded in his cottage on the North Fork of the Shenandoah because high water had covered his causeway for two days. This means he was able to hike on the Tuscarora trail and check out three bald eagles, various and sundry pileated woodpeckers, and budding mixed hardwoods. Jeff missed his flight back to Rome where he is currently working as the Manager of the Forest and Farm Facility, a partnership with the IIED, IUCN, and AgriCord set up to support forest and farm producer organizations of small-scale community and local forest owners/users and small-scale forest based enterprises. Otherwise Jeff remains active on the musical front with his ensemble Orchestra naiF – check out Sound Cloud and You Tube sites if you are ready for some instantaneously composed free whirled music. Jeff notes that there is a small F&ES



“Malcom North's field exercise on how to run a chainsaw – somewhere near campus, some 30 years ago – has finally borne fruit.”

– Bill Condon ('88)

contingent in Rome which includes classmate **Margaret Kneller** (who is a professor there) and a number of alums at the FAO with him: **Doug McGuire** ('87), **Laura Snook** ('80, '93 D.For.), **Susan Braatz** ('80), Director **Eva Muller** ('84), and others. **Michael Jenkins** swings through upon occasion.

Karen Lewis writes: "I recently changed jobs and am now working for the Canadian Wildlife Service on transforming the agency's approach to fulfilling its mandate, with a primary focus on improving conservation outcomes for species at risk under the federal Species at Risk Act (SARA) as part of Environment and Climate Change Canada's Nature Conservation Agenda. Key goals include determining how to move from the current species-by-species approach to more multi-species and ecosystem-based recovery approaches, working closely with provinces/territories, indigenous groups, industry stakeholders, and other partners on shared priority species, places, and threats. It is providing a great opportunity to work on conservation issues at a national scale. I am lucky enough to get to do the job from my home office in Victoria, B.C., albeit with lots of travel. My husband and I are grateful for our health and are enjoying watching our kids (20-year-old daughter, 17-year-old son) transition to adulthood and explore their passions. Please look me up if you are ever out this way. I'd love to reconnect and help you explore the beautiful west coast."

Manuel Ramirez writes: "After leaving my position of Executive Director of the NGO that I founded, Osa Conservation, I started working at EARTH University as Vice-President of Development. EARTH is a unique university with students from 40 countries, with a sole major in agronomic sciences and natural resource management. I mostly fundraise and create new synergies with education and research entities."

Karen Tarnow writes: "After graduating I spent a couple of years working for EPA in Washington, D.C. and slowly made my way to Oregon after a few seasons leading canoe trips for the Voyageur Outward Bound School in the Boundary Waters. It's the only job I've ever had that causes me to well up with joyful tears of remembrance when I think back on those days. I got back onto the career track once I settled in Oregon, eventually ending up (since 2000) as the Senior Water Quality Policy Analyst and Legislative Coordinator at Oregon DEQ. Portland is lovely and the work is great, but, alas, time for another renewal. I never had any interest in traveling in Africa and never gave any serious thought to being a Peace Corps volunteer, but none of that mattered after I decided in February that I needed to make change happen, and days later thought 'huh, I wonder what the Peace Corps has to offer for folks of my ilk' (i.e., age). Sometimes things just fall into place. Two weeks ago, I was invited to join the Peace Corps as an Agroforestry Volunteer in The Gambia. I'll be headed that way in early October. I feel incredibly fortunate and excited to be able to even contemplate this kind of opportunity. I have no idea where it will lead, and that makes it all the more exciting."

Holly Welles writes: "I made the transition to half-time at Princeton University where I now manage a research program, the Carbon Mitigation Initiative. The goal of the program is to bring together scientists, engineers, and policy experts to design carbon mitigation strategies that are safe, effective, and affordable. It keeps my mind in the game and provides an opportunity to contribute while letting me spend quality time with my husband, 12-year-old twins, and our Bernese Mountain Dog."



1989

Class Secretary: **Betsy Carlson**
bcinpt@gmail.com

Betsy Carlson writes: "It's hard to believe that 30 years ago, around this time, I was making plans with **Claudia Martinez** to go to Colombia for the summer and study mangroves in Utria National Park. It was an amazing time, paddling a dugout into the mangroves, living in a simple hut tucked onto a small patch of cleared land between the vibrant tropical forest and the Pacific Ocean where humpbacks breached in front of us and monkeys chattered in the trees behind. I am forever grateful to Claudia for this unforgettable experience. Today I watch for whales where Puget Sound meets Pacific waters and bald eagles soar above the trees. I'm still coordinating citizen science projects at the Port Townsend Marine Science Center and am constantly awed by the diversity of life below the waves."

Jane Freeman and her husband, John, met up with **Nora Devoe** ('84, '90 D.For.) and her husband in Launceston, Tasmania, Australia, while both couples just happened to be vacationing there at the same time in December. They enjoyed a hike in Cataract Gorge together (see photo above) followed by dinner. This was Jane and John's second trip to Tasmania in 2017, as they didn't get enough of the beautiful beaches, amazing wildlife, and great food and wine the first time! Jane is Deputy Director of the California Tahoe Conservancy, located in South Lake Tahoe, Calif. Jane made the switch to state employment 2½ years ago after over 24 years of federal government service with the U.S. EPA, BLM, and Forest Service.

Class Notes

Cyril “CJ” May writes: “To boost my new enviromagic show, ‘Water Wizard,’ to the Vegas-level, I studied the Vegas water magic of my teacher and master magician Jeff McBride in October 2017. Although he used his water bowls magic to best Penn & Teller on their ‘Fool Us’ TV show, he shared it with me because he appreciates that I am using magic for environmental education. I will perform this back at F&ES this spring to get feedback on both the magic and the message of ‘Water Wizard.’ On the recycling front, I am delighted that our new cart program helped the City of Waterbury double its recycling rate within the first month of its launch.”

1990

Class Secretary: Judy Olson Hicks
hicksjudyo@yahoo.com

Vicki Nichols Goldstein writes: “Things are happening in Boulder, Colorado! The Colorado Ocean Coalition (COCO) has evolved into the Inland Ocean Coalition with 9 chapters in North America. COCO is still strong and serving as a model for other ocean coalitions around the country. I am heading to EarthX in Texas to present the Inland Ocean Movement and our chapters are taking leadership roles in the March for the Ocean on June 9th in Washington, D.C. and in communities around the country. Bruce is at the University of Colorado and has launched a new initiative, Netweaver Network. Bruce and I have two kids, with one in 10th grade and the other graduating from high school in May; he will be attending Denver University this fall.”

1991

Class Secretary: Gwen Thomas
gmthomas29@fastmail.fm

Chip and Jill Isenhardt write: “All’s well with family and work here in Colorado. We’re designing a water/river conservation exhibition, and recently teamed up with water guru and F&ES classmate **Doug Robotham** (’90) to dial in the copy. Another fun project is designing a new museum in Arusha, Tanzania, with TNC and others. We’re still in Boulder, with a son in 10th grade and a daughter who just started at Tufts. Give a shout if you’re in the neighborhood!”

1992

Class Secretary: Katherine Farhadian
farhadianfamily@gmail.com

Rosalyn Johnson writes: “I earned my Ph.D. in wildlife ecology in 2016 from the University of Florida and have started a business in the San Francisco Bay Area enhancing backyards for local wildlife (e.g., pollinators, birds, and amphibians) with native plants and appropriate microhabitat. I call it YardBio.com which is short for backyard biodiversity and I am writing a blog on the website about urban wildlife. Check out my blog and leave a comment.”

1994

Class Secretaries: Jane Calvin,
Cynthia Henshaw, and
Jane Whitehill
jcalvin@prospeed.net
c.henshaw@comcast.net
janewhitehill@gmail.com

Bill Keeton writes: “I have a co-edited book coming out this fall. It is called ‘Ecology and Recovery of Eastern Old-Growth Forests,’ published by Island Press.”



LOOKING BACK

Rosalyn Denise Johnson (’92) shared this photo taken when she was a student in 1991. She was looking for monkeys in the vicinity of Puerto Iguazu/Iguazu Falls in Argentina and collecting data for her F&ES master’s project on woodcreepers and monkeys.

1997

Class Secretary: Paul Calzada
pcalzada@clf.org

Jon Kohl writes: “I just recently had a book proposal accepted. It is a field guide for communicators to write strong themes, especially heritage interpretive themes for use in parks and other public natural spaces that receive visitors. It will be published later this year by the National Association for Interpretation. I am also currently teaching environmental education as an adjunct professor at the University of Costa Rica.”

Jose Juan Terrasa-Soler has been directing the on-the-ground effort of Resilient Power Puerto Rico, a nonprofit created to support the transition to solar energy after Hurricane Maria hit the islands in September 2017.

Mary Tyrrell writes: “After 20 years working at F&ES, I’ll be retiring at the end of June. It has been a tremendously rewarding experience to be a part of the F&ES community, starting with our Class of ’97 MODS way back in 1995. I have no specific plans, but lots of interests, and am sure another adventure awaits me. I’d love to hear from my many friends I’ve worked and played with over the years, so please get in touch.” (See article on page 19.)

Ken Pruitt writes: “Hey Class of 1994, we’re holding another gathering at Great Mountain Forest this year. It will be July 27-29. You should have received emails with more info and a link to buy tickets. Please come so we can all reconnect! On the personal side: After 14 years I left the nonprofit advocacy world (Environmental League of Mass.) to become Energy Manager for the Town of Arlington, Mass. I’m working on a wide variety of projects aimed at making the Town carbon neutral by 2050. My learning curve around renewables and energy efficiency is steep, but I’m enjoying it. Family update: Our daughter Emma will be a senior and son Calvin a freshman at Winchester High School this fall. (Emma met with a certain Professor **Bill Keeton** at UVM recently as part of her college search.) My wife Teresa and I are both healthy and happy for a couple of middle-aged people. But seriously, come to the July gathering at Great Mountain Forest!” (For additional info, contact your Class Secretaries.)

2003

Class Secretaries: Ben Hodgdon and Pete Land
 benjamin.hodgdon@gmail.com
 peter.c.land@gmail.com

Daniela Cusack writes: “I just went up for tenure at UCLA this past fall – I’m still waiting for my official letter but things look good! I am still doing most of my research in Panama and will be there this summer looking at drying effects on carbon storage in tropical forests (emphasis on root dynamics). I had a lovely visit with **Kabir Peay** a few weeks ago – he was invited from Stanford to UCLA to give a seminar. We hung out in a garden on campus and pretended to talk about work while my 1-year-old boy tried to run into traffic. Luckily my 5-year-old was safely tucked away at preschool.”

Melanie Cutler writes: “All good here in Andover, Mass. I’m enjoying teaching AP Environmental Science at Andover High School – we have 130 APES students this year! My girls are 10 and 12, and we’re planning a big trip to Peru next year while my husband takes a sabbatical year. I’m also excited to vote on instituting plastic bag and polystyrene bans in our town this spring.”

Jason Grear writes: “Joan and I live a stone’s throw from the Point Judith Salt Pond in Wakefield,

Rhode Island. We have three boys, aged 15, 21, and 23. I am a lead ecologist in U.S. EPA’s Water Research Program, where I study the effects of altered carbonate chemistry (i.e., ocean acidification) on coastal and estuarine ecosystems. For a little more salt and spray, I fish and sail the waters of Narragansett Bay and Block Island Sound.”

Samantha Rothman writes: “A few years ago John and I started converting our property into an organic flower farm called Fairview Farm and Flowers. It’s been quite an adventure thanks in no small part to the weather and climate change. I’m still involved with the nonprofit I co-founded called Grow It Green Morristown, where I see fellow F&ESer **Greg Socha** (’00), the current Board Vice President. We’re hosting our grand re-opening of our community garden this spring after extensive renovations to the park.”

Laura Ruiz writes: “I’m now working for the LAUSD as a middle school science teacher in Boyle Heights, Louis. It has been an interesting year transitioning from high school to middle school, but these kids are so excited and energetic about learning science! If anyone has time to Google Hangout with a bunch of 13-year-olds about their professional [science] experiences, I’d love to hear from you.”



1999

Class Secretaries: Jocelyn Forbush, Jennifer Garrison Ross, and Christiana Jones
 jforbush@ttor.org
 jennifergarrisonross@yahoo.com
 christiana@jonesfamilyfarms.com

Julie (Herbst) Bain (pictured above, in a photo titled “iRanger”) writes: “I’ve been a district ranger for the Forest Service in the Nebraska Sandhills for the last three years. I work with amazing, talented, and capable staff and a super courteous public. We are working on ‘keeping the grasslands grass’ by using prescribed fire to kill encroaching Eastern red cedar. It is definitely a life’s work.”

Andrea Cristofani writes: “We’ve enjoyed bicoastal meet-ups with **Stephanie Campbell** and family and **Patricia Garffer** (’97) and family. We also had a nice visit from **Lila Gil** and her family from Venezuela. We are doing our best to raise the next generation of F&ESers!” (Andrea Cristofani and Stephanie Campbell are pictured right with daughters Camila and Greta.)

2001

Class Secretaries: Leigh Cash, Adam Chambers, and Jennifer Grimm
 cash@statsrule.com
 adam.chambers@por.usda.gov
 jennywgrimm@gmail.com

Matt Clark and **Abby Sarmac** write: “After three years spent living in Loja, Ecuador, we and our two boys are moving back to Portland, Ore. Abby will continue as a mentor and consultant on impact investment to social enterprises globally, with organizations like IMPAQTO in Ecuador and the Miller Center in Silicon Valley. Matt was recently promoted to President and CEO of Nature and Culture International, an international conservation NGO working throughout Latin America. Drop a line or look us up if you are in Portland.”

Class Notes



Back in 2016, (left to right) Andrea Johnson ('05), Brett Galimidi ('05), Eli Black (IR '05), and Jocelyn Hittle ('05) planted a tree in honor of classmate Laurie Cuoco as part of inaugural events for Andrea's cattle farm restoration project in Costa Rica's Osa Peninsula.

The photo to the left shows Andrea Johnson checking up on the same tree, almost two years later.

In addition to this tree-planting, Laurie's classmates are honoring her memory by raising funds for a new F&ES student scholarship and organizing an annual F&ES Spirit Day for their class. Her friends say that Laurie was the embodiment of the F&ES spirit.

Abdalla Shah writes: "Life goes on, no major shift at work, but family-wise I am just surprised that all my children are becoming adults and do not want to be under my tutelage anymore. *C'est la vie.*"

2005

Class Secretaries: David Cherney, Dora Cudjoe, Benjamin Urquhart, and Virginia Lacy
david.cherney@colorado.edu
dcudjoe@worldbank.org
bnurquhart@gmail.com
virg.lacy@gmail.com

Andrea Johnson writes: "I am entering tree-planting season #3 on the farm I'm restoring in Costa Rica's Osa Peninsula. With both financial and in-person support from F&ES friends, my assistant Carlos and I have planted over 3,200 trees so far in recovering cattle pasture – mostly native species in mixed plantings for wildlife, timber, beauty, slope, and soil restoration. I've also put in a patch of exotic teak for cash flow around when my niece and nephew are ready for college (here's to trees and hope!). We've established two native species nurseries in nearby communities and coordinate with a local bird nonprofit. This year the planting continues, and I'm also acquiring two young horses, which should be trained up for riding by the time you and your little ones are ready to come visit Osa. In my spare time I'm still working as a consultant on forest policy, management, and restoration to both NGOs and companies. The Environmental Investigation Agency recently launched a new report on ongoing crime and governance failures in Peru's forest sector, 'Moment of Truth,' of which I was a primary author. The farm helps me keep at least a little bit positive about our global future."

Radha Kuppalli writes: "I have been sharing an incredible 2017 and 2018 with **Daniela Aburto Valle** ('10) here in Sydney. Daniela and I were put in touch by our favorite Australian F&ESer, **Anastasia O'Rourke** ('09), when Daniela moved to Sydney in January 2017.

Daniela and I each had baby boys, in June and July 2017, respectively, and have been sharing the joys, ups, downs, and everything related to new motherhood. I'm loving being a mom to baby Nicholas and recently returned to work at New Forests after maternity leave. I'm also part of the team working to raise the F&ES Class of 2005 Laurie B. Cuoco Scholarship and I'm very proud to say we have raised over \$50,000 toward creating an endowed scholarship!"

2006

Class Secretaries: Krista Anderson, Flora Chi, Reilly Dibner, Sue Ely, and Jill Savery
 Anderson_kb@yahoo.com
 flora.chi@gmail.com
 reillydibner@gmail.com
 suzie.ely@gmail.com
 jillsavery@yahoo.com

Saima Baig writes: "I have moved to the United Kingdom and now live in Liverpool. It has only been four months but I am loving it. For the last four years I have been working as a freelance consultant primarily on climate change mitigation and adaptation but here in the UK I am looking for a permanent position."

Jeanne Braha is starting a new role as Executive Director of Rock Creek Conservancy, which protects Rock Creek and its parks, based in Md.

2007

Terry T. Baker writes: "In early 2017, I was promoted to the position of Deputy Forest Supervisor of the Arapaho and Roosevelt National Forests and Pawnee National Grassland. It has been a great experience managing public land in one of the fastest growing areas of the country. In October, I married Jessica Roosevelt in Portland with many F&ES classmates in attendance and some participating in the event!"

Derrick Dease writes: "Hi all! It's been a while since I sent in an update, so I thought I'd stop being lazy and actually send something in this time. I'm still living and working in the Colorado Springs area with my 5 year old fur-baby Hunter. I travel a good bit, but if any fellow

F&ESers are interested in paying Colorado a visit and seeing what this beautiful state has to offer, you should definitely look me up!"

Since 2013, **Mike Perlmutter** has worked for the City of Oakland supporting volunteer efforts to clean and green the city. He helps organize city-wide events for Earth Day and Coastal Cleanup Day, and welcomes all to join these and/or other activities throughout the year. Find out more at:

www.oaklandadoptaspot.org.

Outside of work he maintains a busy schedule performing music and, along with his wife, raising their daughter, Sofia, now three years old.

Kate "Woody" Tipple writes: "This year Brett and I are starting new adventures in California! I am thrilled to join several F&ES grads with Beveridge & Diamond. Brett and I had a blast catching up with **Aja DeCoteau**, **Emily Enderle**, **Avery Anderson** ('08), and **Kimpton Cooper** ('08) this summer, and celebrating Terry Baker's wedding!

I'm looking forward to reconnecting with more F&ESers this year, especially if you are around San Francisco!"

2008

Class Secretaries: Angelica Afanador Ardila and Kelsey Kidd Wharton
 angelica.afanador@aya.yale.edu
 kelseyk.wharton@gmail.com

Laura Alex Frye-Levine writes: "By the time you read this, I will have finished up Ph.D.s in sociology and environmental studies at the University of Wisconsin. My dissertation – the seeds of which were planted in Gus Speth's fateful 2006 seminar – is an ethnography of knowledge creation at the intersection of ecology and economics. After 3 years in Madison and 3 years in Boston (including a stint at the Kennedy School of Government), I've just accepted a multi-year postdoctoral position at MIT which will begin this summer. I'm casting about for

new research projects and looking forward to reunion in October!"

After working for Western Resource Advocates on many initiatives and projects that help protect the West's land, air, and water for the past 8 years, in December 2017 **Jorge Figueroa** took on a new role as Chief Innovation Officer for Americas for Conservation and the Arts. He will be focusing on cultural resiliency and resilient food-energy-water systems in Puerto Rico and the Caribbean, helping the people of San Luis Rio Colorado enjoy their Colorado River in perpetuity, and protecting the West's sacred landscapes for future generations. He will be engaging and connecting leaders, creating networks, harnessing the power of markets and incentives, and building and running the new Americas for Conservation Policy Innovation Laboratory to develop solutions and partnerships to advance these goals.



In October 2017, Terry Baker ('07) (front, center) was married to Jessica Baker in the World Forestry Center in Portland, Oregon. Several F&ES classmates attended the event – Kate Tipple ('07), Stephanie Horn ('06), Kimpton Cooper ('08), Aja DeCoteau ('07), Avery Anderson Sponholtz ('08), and Emily Enderle ('07). The former F&ES Director of Admissions, Emly McDiarmid ('78), also attended. Avery officiated the ceremony and Emily conducted a reading.

Class Notes

Ashley (Roberts) Joy writes: “It warmed my heart to read about so many familiar people in the last issue of *Canopy* and inspired me to share. The last few years have led my long-time partner, Matt, and I on some fabulous adventures. We completely renovated a 1976 camper van which we named Serenity. We lived off-grid in Serenity as camp hosts for an entire summer in a remote Wyoming campground. Afterward, we bought our first home. And in April of 2016, we got married and both changed our last name to Joy. If you are ever in Wyoming, give a shout.”

Yuliya Shmidt writes: “I’m continuing working in energy policy for the State of California, recently switching to advising a commissioner at the Public Utilities Commission. Looking forward to seeing everyone at the reunion!”

Peyton Smith writes: “I am excited to (finally) start a faculty position as Professor of Soil Carbon Dynamics at Texas A&M this summer. Yee Haw!”

Yong Zhao writes: “I’m currently living in NYC, expanding my company, Junzi Kitchen, from Yale to Columbia and opening another two stores in Greenwich Village and Bryant Park.”

2010

Class Secretaries: Daniella Aburto Valle, Luke Bassett, Paul Beaton, Clara Changxin Fang, William Lynam, and Kristin Tracz
daniella.aburtovalle@gmail.com
lhbassett@gmail.com
paul.beaton@aya.yale.edu
clara@earthdeeds.org
william.lynam@aya.yale.edu
kristintracz@gmail.com

Gillian (Paul) Bloomfield writes: “After 10 years spent living in New Haven, this June we will be saying goodbye to this amazing city to start our new life in Pittsburgh, Penn. My husband, Aaron, is beginning a new job as a tenure-track chemistry professor at Duquesne University, and I will continue working remotely for F&ES’s Environmental Leadership and Training Initiative. Our two-year-old son is full of energy,



new words, and silliness, so we envision fun times ahead in the Keystone state.”

Jesse Burkhardt writes: “I now live in Fort Collins, Colo., where I am an Assistant Professor of Environmental Economics at Colorado State University. I stayed to do a Ph.D. at F&ES, and got married and had twin girls while there. They are turning four in June. Life is great. Hope everyone else is doing well.”

Justin Elicker is still in New Haven running the New Haven Land Trust and hanging out with lots of F&ES folks – both grads and current students. Come visit.

Debbie Wang and **Jonathan Labozzetta** welcomed Mabel Xian Labozzetta into the world in November. Big brother Oliver (age 4) is excited about his new role reciting “The Lorax” to her, his favorite book which he has committed to memory as his passion project. Jonathan recently started a new job as Director of Development for CDP (formerly Carbon Disclosure Project). They live in Queens, N.Y. and would love to see any F&ESers passing through!

2011

Class Secretaries: Judith Ament, Adedana Ashebir, Rebecca de Sa, Laura Johnson, and Victoria Lockhart
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adedana.ashebir@gmail.com
rebecca.desa@aya.yale.edu
laura.a.johnson@aya.yale.edu
victoria.lockhart@aya.yale.edu

Margaret Arbuthnot has had quite a year traveling the world for the project she is managing at WWF, “Generating Responsible Demand for Reduced-Deforestation Commodities” – and running into F&ESers all along the way! She visited palm oil plantations and tropical forests in Gabon with The Forests Dialogue and current students Thomas Launer, Peter Umunay, and Megan Sullivan. She had unexpected adventures with **David Burns** (’10) and **Rauf Prasodjo** (’14) at the RSPO conference in Bali during the erupting volcano, and hosted a workshop in Oxford that included **Keith Lee** and participants from eight other countries. She explored Lima’s ceviche scene with **Jen Baldwin** (’10) and **Ian Starr** on a weekend layover in Peru. (See photo above of Ian, Margaret, and Jen in Peru.) Above all, Margaret is very excited to be visiting New Haven in May to celebrate her sister Annie’s graduation from F&ES!



LOOKING BACK

Dania Trespacios (’11) shared a photo of the Class of 2011 at MODS 2.0. Pictured here (left to right) are ’11 classmates **Alyssa Go**, **Lauren Richie**, **Mario Peixoto Netto**, and **Gray O’Shaughnessy** in May 2011.

Kathryn Au writes: “Moved back east and LOVING the spring-ter in New England! I’m setting up an acupuncture shop in Brooklyn/NYC. Meanwhile, I’m traveling about once/month (and hiking!) all over Native American country training tribes on HUD NEPA requirements.”

Jason M. Brown writes: “In October 2017, I successfully defended my Ph.D. dissertation. The program was in Resources, Environment, and Sustainability from the Institute for Resources, Environment, and Sustainability (IRES) at the University of British Columbia. The dissertation focused on the land management, sense of place, and experience of the landscape of Catholic monks in the American West. I am currently teaching a course called Environmental Perception at the UBC Forestry School, and applying for jobs for the fall of 2018. In May I will be walking the Camino de Santiago in Spain.”

Eliza Cava and Rachel Shorey adopted their daughter, Lena Dee Cava, in August. Lena was born in Florida and by the end of her second week on earth had spent four days in a rental car evacuating from her first hurricane. Eliza now works at Audubon Naturalist Society, a local D.C.-area independent environmental organization, and Rachel is still at the Washington bureau of the *New York Times*.

Diana Connett writes: “Since climbing trees in New Haven and diving into the belly of the oil and gas industry, I’m now at the Asian Development Bank in Manila, managing projects in urban and water infrastructure across South-east Asia. My primary projects are in Vietnam and Indonesia, and I’m eager to find workable approaches to capturing ecosystem services values in future investments, as well as to pilot sustainable technologies for developing economies. After 2.5 years in the Philippines, I delight in discovering new, magical ecosystems through scuba diving around the region ... come see for yourself! We have a small (and growing) contingent of F&ESers here in Manila and more UNESCO World Heritage sites to experience than time.”

Efrie Friedlander got married to Veggie Dinner website mastermind David Escott and changed her name to Efrie Escott. She is still working as an architect/researcher in Philadelphia at KieranTimberlake with fellow F&ES alumni **Steph Carlisle** and **Rod Bates** ('07), and regularly begs **Max Piana** for help teaching her ecology and architecture design course at Temple University.

Emily Jack-Scott is still living, working, and playing on the western slope of Colorado. She works at the Aspen Global Change Institute, organizing interdisciplinary scientific workshops and doing research on local ecosystems. She and her husband, Danny, recently welcomed baby boy Bennett into the world, and have gotten to share his snuggles with visiting F&ESers **Kathryn Au** ('10), **Jesse Daniel Oppenheimer**, and **Tania Ellersick** ('12).

Ben Larson is working at Enviva Biomass. They make wood pellets and ship them to utilities in Europe and Japan. In addition to displacing coal, they are doing lots of good and interesting things in forest management, conservation, and restoration.

Gabriel Mejias writes: “Monica and I have been super busy for the past year after welcoming our daughter Andrea. She is 6 months old and doing well; she is very sweet and curious but not too fond of sleeping. Gabriel still works in D.C. at the World Bank and Monica is still working at an IT company that provides a tool used by political campaigns. Come visit!”

Campbell Moore writes: “I live with my wife on a river in an idyllic valley in the mountains of West Virginia and spend my time mountain biking, cross-country skiing, and hiking – come visit! I also have a job ... running The Nature Conservancy’s Central Appalachians program, working across six states on large-scale conservation of some of the highest climate resiliency lands in North America, nature-based economic diversification, and other fun stuff.”



Dania Trespalacios writes: “My journey in marine conservation currently has me at The Nature Conservancy. My team advocates for the conservation of coral reefs, mangroves, and salt marshes for their coastal protection value. I serve as a project manager on this team, which means I run everything from grant applications to budgeting and staffing to delivering the final product at a COP. Together, my team makes the scientific case for the protection value of coastal habitats, and secures funding and support for the conservation of these habitats. I live in Santa Cruz, California – always happy to have visitors!”

Mona Yang writes: “I recently joined Delta Electronics. It is a company that provides high efficiency power supplies, industry automation solutions, and renewable energy solutions. I work on corporate sustainability as a project manager there. Prior to this, I was a sustainability consultant at Pricewaterhousecoopers (PwC). My projects include DJSI assessment, social return on investment, and CDP. (But what I’m most excited about is to build a smart control pet house for my tortoise in the future!)”

2012

Class Secretaries: Simon De Stercke, Naazia Ebrahim, Alison Schaffer, and Leigh Whelpton
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leigh.whelpton@gmail.com

Jason Clark came north to Alaska in 2015 with a mission: to recreate his colorful Dr. Seuss forestry fantasies. As a child, he pored over Dr. Seuss stories, fascinated not by the outrageous animal characters, nor by the distinctive, playful rhymes, but by the scraggly, misshapen, sad little trees that populated the infamous pages. When he finally stepped out of his truck in the Golden Heart City of Fairbanks, he fell to his knees. Miles and miles of perfectly awkward, tipsy black spruce were laid out before him like a bizarre carpet. Here, at last, was his dream realized: to live like a fairy amongst the little spruce, collecting labrador tea leaves and drying blueberries near his permafrost cave. Jason also studies shrubs at the University of Alaska Fairbanks.

Shane Hetzler writes: “I’ve been working as a forester for Trout Mountain Forestry in my home state of Oregon for over two years now, and it is fantastic. My fiancée **Shannon Murray** ('14) moved out to join me from New Haven last fall, and we are getting married September 1st (see photo above). We’ve enjoyed hosting several classmates at our home here in Corvallis, so please be in touch if you are in the area!”

Class Notes

Melissa Jenkins writes: “I’m working at the U.S. Forest Service on market development for cross-laminated timber, an engineered wood product that’s new to the U.S. By working on code development, fire testing, blast testing, and demonstration buildings, we are working to support a new paradigm for green building construction. I live in Washington, D.C. with my husband, Jeff, and the new addition to our family as of September 2017, Elena.”

Raul Lamas is working tirelessly on starting up a life-cycle sustainability consulting firm in Peru.

Shelly Thomsen welcomed Sage Genevieve to her family last March and moved to Lake Tahoe in June for her job managing the water conservation program for South Tahoe Public Utility District. She had a spectacular New Year’s in Orange County with **Maya Breitburg-Smith**, **Kedar Mankind**, **Margo Mosher**, **Joe Teng**, **Leah Butler** (‘14), **Dan Berkman**, **Paul Thomson**, **Leigh Whelpton**, **Gina Schrader** (‘11), and Gina’s fiance Kevin.

Sarah (Uhl) Smith writes: “Life is non-stop excitement as the mom of an outdoors-loving toddler here in the Granite State. I am still working on climate and energy issues at Clean Air Task Force. We’ve had some remarkable success defending Obama-era methane pollution standards for the oil and gas industry, and have expanded our advocacy into Canada and Latin America. My family recently moved across town (Portsmouth, N.H.) to a house with a bit of woods. I find myself wishing I had taken some actual forestry classes while at F&ES. Friends: please come visit and help me figure out what’s growing out there!”

Denise Soesilo writes: “Work has led me towards UAVs and other autonomous vehicles in disaster response and development – mostly agriculture. I am currently expanding services in my niche of responsible robotics and A.I. Believe it or not, environment is very much implicated in these

developments. I get distracted by the mountains in Switzerland and I spend much of my time hiking. Holler if you come over this way or want to talk equity, environment, and responsible robotics.”

Lauren Sparandara writes: “Recently my husband, my 2.5 year old son, and I moved from San Francisco to Palo Alto to be closer to our work at Google. We’ve been enjoying being able to bike to work, being closer to the oak trees, and having less fog roll in. I continue to work at Google on our sustainability and real estate team. And, within the last couple of years I’ve been specifically focused on the sustainability of our large new ground up construction efforts.”

Pablo Torres and his wife, Gabi, welcomed their first child, Lucia, last September. They are adjusting to the parenting lifestyle and continue to live in the D.C. metro area.

Bryan Yoon writes: “I am finally ending the New Haven chapter of my life and moving to Boston this summer. Please say hi if you come to Boston!”

2014

Class Secretaries: William Georgia, Chetana Kallakuri, Lin Shi, Cary Simmons, and Karen Tuddenham
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Akwasi Acheampong (Achea) is the Founder and CEO of Okstrio, a startup working to bridge food and nutritional gaps in parts of Africa along with co-founders **Parfait Gasana** (current F&ES student) and **Iro Sam-Woruka** (‘11). He’s currently piloting the project through private-government partnerships in West Africa (Ghana) and East Africa (Rwanda).

Erin Beasley writes: “I finished my Gruber Fellowship in 2016, where I implemented a climate resilient agricultural program with small farmers in Cochabamba, Bolivia, and found an exciting opportunity with Conservation International (CI) working as their Manager of

Climate Change Policy. I’m currently located in D.C. and my job is a mix of following the UN climate negotiations and supporting CI’s partner countries to prioritize natural spaces for better adaptation to climate change. Bolivia is still in my heart, but this new work has been meaningful and a great application of my previous experience and F&ES studies!”

Joanna Dafeo writes: “After five wonderful years in New Haven, I am now settled into life in Ottawa, Ontario, where I am working as the senior policy advisor to the Canadian Ambassador for Climate Change. F&ES friends and family coming through Ottawa, please drop me a line!”

Sarah (Barbo) Nielsen writes: “Last summer I got married to Greg Nielsen in Holland, Mich. with several F&ESers in attendance. We are living outside of Ann Arbor while Greg attends medical school. I am on the Strategy team at Consumers Energy, charting the future for Michigan’s largest electric utility. My group assesses industry trends and technology advancements like electric vehicles and smart grids to define the utility of the future.”

Elizabeth (Babalola) Ojo writes: “Right after F&ES I worked with the African Wildlife Foundation in Nairobi, getting a deep dive into African conservation and a large dose of travel, which I absolutely loved. Since then, I’ve tied the knot and most recently had a gorgeous baby girl! Coming up to two years with the African Leadership University, where we’re setting up a School of Wildlife Conservation within this amazingly re-imagined university. I’m working hard to recruit our second cohorts of undergrad and master’s scholars into the school, while planning a conference for late-2018 that aims to foster conversation across the silos about African conservation. All of this while working remotely from home – Lagos, Nigeria. **Lia Nicholson** is now based here too (yay); I got to enjoy a nice lunch with her, my hubby, and my big bump in late-2017. Give me a ring if you’re ever in Lagos, I would love to meet up!” (See photo of Lia and Elizabeth below.)

Lia Nicholson is Technical Advisor to the Department of Environment in the Government of Antigua and Barbuda, spending time in West Africa where her partner Marcel Logan is based with McKinsey & Company.





Maclovía Quintana writes: “Last summer, I finally left New Haven (after 10 years!) and moved to the Bay Area. I married my husband Adam in October at a lovely farm wedding in New Mexico, with a number of F&ESers present. In January, I started a new job with Earthjustice, where I’m the Diversity, Equity, and Inclusion Program Manager.”

Lucas Swampdog Tyree (see photo above) writes: “I am a traditional tribal and I was raised by my grandfather to live for one purpose. I live this as a steward of my ancestral land, which is an unbroken ancient forest ecosystem. A portion of the Blue Ridge Mountains of Virginia remained in my family from before European contact, it was spared the saw and not one live tree has been felled by a human in the past nine generations of our control. However, the surrounding land has changed hands and has been under constant threat of decimation, by either logging, or pollution, or construction, or other land use change. In these lands are ancient trees, refuge for our bear population, undisturbed soils yet remnants of our peoples’ habitation. Burial mounds of my ancestors, terrace complexes and aqueducts, all contained in this land that I am raising funds to reclaim. I am thrilled to report backing from

students, alumni, faculty, the Assistant Dean of Community and Inclusion at F&ES, a former US Director of the World Bank, Vice President of the Conservation Fund, the Board of the Virginia Outdoors Foundation, and many others. The land is of immeasurable value to my people and to the generations following us that could carry our culture unbroken. This project is the latest installment in a 500-year resistance. I am the Chairman of the Monacan Constitutional Committee, author of the Monacan Constitution, and Managing Director of NDPonics.” To learn more, search YouTube for Lucas Swampdog Tyree.

Yiting Wang writes: “I went on an all-female leadership-for-the-planet voyage to the Antarctica Peninsula in February with the Homeward Bound Project, which I’d encourage all to consider applying to. The learning has been transformative through profound self-discovery, collaboration with women scientists from around the world, and collective decision-making onboard. I now live in Cambridge, Mass. and will be working with WWF US from April on, supporting China-U.S. collaboration, climate finance, and marine conservation in China.”

2015

Class Secretaries: Akiva Fishman, David Gonzalez, Philip Kunhardt, Eric Vermeiren, and Frances Sawyer
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 EricVermeiren@gmail.com
 frances.sawyer@gmail.com

Noel Aloysius (’10, ’15 Ph.D.) writes: “I have started my new and exciting career at the University of Missouri. I joined the university as Assistant Professor of Bioengineering and Natural Resources. My position is one of several water studies and sustainability hires between the College of Engineering and the College of Agriculture, Food, and Natural Resources. Do drop by if you ever pass through the Show Me state.”

Mariana Lo writes: “The second half of 2017 was a busy time! I took on a new job as Research and Planning Analyst at New Yorkers for Parks, a citywide independent research and advocacy organization. I also got married in August.”

Sam Teicher writes: “Time to farm some corals! **Gator Halpern** and I just moved to Grand Bahama, where we’ll be launching our company Coral Vita’s first coral farm. We hope to ultimately have a global network of such farms helping to restore and protect reefs for future generations.”

2016

Class Secretaries: Paloma Caro, Mohammad Aatish Khan, Nicholas McClure, Mariana Vedoveto, and Lisa Waweru
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 lisa.v.waweru@gmail.com

Emma Akrawi writes: “I’m nearly halfway complete with my J.D. at Vermont Law School. In addition to the usual requirements, I’ve had the opportunity to keep my passion alive by taking environmental law classes in land use and environmental taxes. I’m involved in our food & agriculture law society, and am hoping to help start a permaculture garden here like at F&ES.

I can’t wait to hear updates from you all and hope to see you at a reunion soon!”

James Albis writes: “Since June 2017, I have been working as the Executive Director of the Connecticut Green Building Council (CTGBC), our state’s chapter of the USGBC. With nearly 200 members ranging from architects and engineers to building operators to sustainability professionals, we promote sustainable building practices and provide educational opportunities to our members and members of the public. I am still serving in the Connecticut legislature, and have been promoted to Deputy Majority Leader, where I chair the screening committee and help manage the flow of business in the House.”

Shelley Clark is living in Marin County in the Bay Area and loving it! She works as an attorney at a nonprofit in San Rafael called Fair Housing Advocates of Northern California. She assists clients who have concerns relating to discrimination and disability in their housing situation. She lives in Fairfax, Calif. with fellow F&ES alum **Colin Kelly** and his dog Hatch. She enjoys hiking in the Mount Tamalpais Watershed and trying new yoga studios around her new home. She is on the Fairfax Open Space Committee and is a board member of Marin County Women Lawyers. Get in touch with her if you visit the Bay Area!

Allison Sloto writes: “I am very pleased to have joined the law firm of Sive, Paget & Riesel (SPR) in January 2018 as an Associate Attorney. SPR is a leader in the fields of environmental law and litigation, municipal law, and land use law. In my new role, I am continuing to provide clients with land use and EIR expertise, while also expanding into a broad array of other environmental compliance, transactional, and litigation practice areas. I am proud to have become part of a firm with such deep ties to the environmental movement in N.Y., and look forward to learning from and working with some of the best and brightest practitioners and thought leaders in the field.”

Class Notes

Linh Tran writes: “After some time back in my home state of California, I’ve made my way to Colorado and am loving the mountains, bike trails, and breweries. I recently joined the Water Funders Initiative and am excited to advance sustainable water management in the West. We have a small but mighty group of F&ESers in the Boulder/Denver area, so please reach out if you’re coming through!”

2017

Class Secretaries: Niko Alexandre, David McCarthy, Rebecca Shively, Emily Wier, and Farrukh Zaman
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Shams-il Arefin writes: “I am working on an innovative new project to use passive and active sensors mounted on commercial aircraft to monitor greenhouse gas emissions. The idea is to be able to have open source data for people to be more aware of emissions from anywhere in the world. The eventual outcome is to have this data connect with actual sources of emissions so investors can make better investment decisions and for the government to make more effective policy to comply with emissions reductions under the Paris Agreement.”

Logan Ashcraft founded and leads the Energy & Renewables team at Plenty, an indoor agriculture company based in San Francisco, Calif. Plenty received \$200M+ in Series B and is building indoor farms in metropolitan areas across the globe.

Alex Co writes: “I’ve settled into my new home in Pittsburgh, Penn. and am working in a regional office of the International Living Future Institute (along with **Benson Gabler** ’09) to assist regional building product manufacturers in achieving sustainable product labels and certifications, which allow them to be more readily specified in green building projects. I know

a few F&ESers that are moving to Pittsburgh this year and we would always welcome a visit!”

Sam Geldin is pursuing a Ph.D. in City and Regional Planning at the University of Pennsylvania, with a focus on regional planning, climate adaptation, and disaster risk reduction in South and Southeast Asia.

Jessica Leung writes: “I’ve been enjoying life in Washington, D.C., working as a Solutions Fellow for the Center for Climate and Energy Solutions, or C2ES. I’m researching and writing papers on clean energy, city action to reduce emissions, and how the built environment is decarbonizing. I’ve also been involved with the F&ES happy hour organizing group as well as the broader Yale Club of D.C. As a programming volunteer and liaison to F&ES, I’m trying to connect more Yale alumni in the D.C. area. Please contact me if you have any ideas to accomplish that goal!”

Katy Mixer writes: “After graduation, I traveled from Siberia to Nepal with a brief sprint across the U.S. to chase the solar eclipse. I have now landed in Australia where I am working at the Boston Consulting Group and hanging out with a small but mighty handful of F&ES alums!”

Luna Ou writes: “Met some F&ES alumni at Duke! And North Carolina is better than my expectations.”

Linh Tran (’16) (left) and Sara Rose Tannenbaum (’17) (right) were excited to see Lindsey Ratcliff’s (’16) (center) work in action. Lindsey organized a Symposium titled “Forging Sovereignty, Self Determination, and Solidarity through Water Law” for the Denver University Water Law Review.



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Make plans now to join your classmates and generations of F&ES alums for Reunion Weekend! Learn more: environment.yale.edu/alumni/reunion-weekend



Alumni Connections



1 Urvashi Bhatnagar (current Yale School of Management student) and Jessica Leung ('17) (front row, left to right), hosted a joint networking happy hour between F&ES and SOM on March 14th at Madhatter, the monthly gathering spot for F&ES alumni in D.C. As part of her capstone, Urvashi is currently writing a book about the intersection of climate change and public health with F&ES Professor Paul Anastas; this event served as an ideation session for collecting stories for the book. Recently admitted F&ES students from the D.C. area were also in attendance.

2 Caroline Scanlon '18 M.F., Laura McCarthy '87 M.F., and Rich Guldin '76 M.F.S., '79 Ph.D. at the SAF National Convention reception; Rich started the Yale SAF Chapter in the 1970's.

3 Sarah (Matheson) Mihalecz '05 M.E.M. shared this photo of F&ES alumni and students at GreenBiz 18 in Phoenix, Arizona. Classes from '01 to '19 were represented!

4 Alumni and students who attended the 2017 Land Trust Alliance (LTA) Rally in Denver, Colorado met up at a TGIF hosted by the F&ES Office of Development and Alumni Services (DAS).

5 In April 2018, F&ES DAS hosted an alumni reception at the New England Society of American Foresters Annual Winter Meeting in New Hampshire. Pictured here are Kenny Fergusson '93 M.F.S., Mary Tyrrell '97 M.F.S., and Peter Palmiotto '92 M.F., '98 D.For.

6 The Society of American Foresters (SAF) National Convention drew F&ES alumni and students to Albuquerque, New Mexico in November; they connected at an F&ES DAS reception.



In Memoriam

Robert O. “Bob” Brandenberger ’50 M.F.

(1925 – 2018) passed away on January 26, 2018 in Bozeman, Mont. Robert grew up in New Jersey and also spent parts of his childhood in Switzerland, as his parents were Swiss immigrants. He graduated from high school early, as valedictorian of his class, and worked in a military parts factory until he could enlist. Bob was a Naval Aviator in WWII from 1943-46. He was also a smokejumper, someone who parachutes to fight wildfires, in Missoula during the 1948 season. This was the same year he graduated from the University of Michigan with a degree in forestry. He went on to get his master’s degree in forestry from the Yale School of Forestry in 1950. Bob worked for the U.S. Forest Service in Northern Idaho and Montana for 35 years. He was an enthusiastic skier, evidenced by the fact that he skied until age 90, and helped to conceptualize and develop ski areas in the region, as well as campgrounds, marinas, and other recreational facilities. Bob is survived by his sister, four children, and seven grandchildren.

Orville H. “Doogie” Darling, Jr. ’58 M.F.

(1928 – 2017) passed away September 23, 2017 in Little Rock, Ark. Orville was a graduate of the University of Arkansas at Monticello (UAM), Louisiana State University, and the Yale School of Forestry. He worked for Fordyce Lumber Company and at Georgia-Pacific Corporation for 44 years, during which time he received the Distinguished Service Award and was a Forest Resource Regional Manager in his most recent role prior to retirement. Orville was part of the Arkansas Forestry Association Executive Committee and served as President for several years in the late 1980s. In 1993, he was the recipient of UAM’s Achievement and Merit Award for Alumni. He was appointed to the Arkansas State Forestry Commission in 1994 and served as Chairman for almost a decade after that. He was a long-term member of the Board of Directors for Deltic Timber Corporation of El Dorado, Ark. Among his many noted accomplishments, Orville was inducted into the Arkansas Foresters Hall of Fame in 2005. He wrote two books about local mills, forestry operations, and timber associated with Crossett Lumber Company, now part of Georgia-Pacific and the town of Fordyce. He is survived by his wife and granddaughters.

Joyce Lewin ’53 Ph.D.

(1926 – 2017) passed away December 4, 2017 in Sedro-Woolley, Wash. She grew up in upstate New York and was the valedictorian of her high school class. Joyce attended college at Cornell University and went on to graduate school at Yale School of Forestry. She was particularly interested in marine biology and pursued this passion throughout her career. She conducted research for Woods Hole Oceanographic Institute on the East Coast and the Scripps Institute of Oceanography on the West Coast, before becoming a professor at the University of Washington in the Department of Oceanography. Through this professorship, Joyce began teaching part-time at the Friday Harbor Marine Biological Laboratories on San Juan Island. She did research and published articles there and ended up moving to the island, where she resided for the rest of her life. Joyce was involved in the community – she helped to start up the Mullis Community Senior Center – and remained steadfast in her commitment to the environment. She is survived by her nephew and niece.

Donald J. “Don” Miller ’54 M.F.

(1926 – 2017) passed away on December 26, 2017. Born in Rockville, Conn., Don was the youngest of four and grew up exploring the great outdoors. He was stationed in the Philippines as part of the 25th Infantry Division during World War II, and occupied Japan immediately following the war. When he returned to his home state, Don attended the University of Connecticut for his bachelor’s degree and Yale School of Forestry for his master’s degree. He spent several years working locally and then moved across the country for a position with the Oregon Forest Products Laboratory at Oregon State College (now University). He contributed to important forestry research for 35 years, until his retirement in 1990. Don served as a volunteer for Santiam Pass Ski Patrol and his commitment to environmentalism was evidenced by his bicycle commutes and his love of outdoor activities. He is survived by his two children, a granddaughter, nephews, and nieces.

Bradford W. “Brad” Monahon ’64 M.F.

(1933 – 2018) passed away on February 8 in South Kingstown, R.I. He was born in New York City, earning his bachelor’s degree from Brown University and his master’s degree from the Yale School of Forestry. After Yale, he served in the U.S. Coast Guard. His professional career was spent with the U.S. Forest Service in Colorado and then the Rhode Island Department of Environmental Management, retiring as the manager of the Arcadia Management Area. Brad was passionate about skiing in Vermont and the Berkshires, riding his bicycle, racing sports cars, and attending music festivals. He loved the Rhode Island coastline, particularly Salt Pond, Matunuck, and Block Island. He is survived by his wife, Sally, two children, and two grandchildren.

Robert L. “Bob” Perkins ’51 B.A., ’52 For

(1927 – 2017) passed away on June 17, 2017. He was born in Stamford, Conn., and went on to live in Greenwich, Conn., Essex Fells, N.J., and finally, Tenafly, N.J. Bob earned his bachelor’s degree from Yale College and his master’s degree from the Yale School of Forestry. He was the founding trustee of Wildlife Preserves, Inc., a New Jersey nonprofit dedicated to the preservation of land in its natural state. Bob devoted his life to Wildlife Preserves, and to the welfare of plants and animals. He defended open space and protected wildlife habitats for education and research. Bob helped create many parks and forests in the Northeast, including parts of the Great Swamp National Wildlife Refuge, Fire Island National Seashore, and several Morris County Parks. As president of Wildlife Preserves, Bob assisted in acquiring thousands of acres of marshlands; from the Delaware Bay, north through the Pine Barrens, along the central Passaic Basin to the Appalachian Mountains of northern New Jersey, through New York State, and as far north as New Hampshire and Maine – all for preservation purposes. Bob was an avid bird watcher, and an enthusiast of literature and history. He was known for his great wit, his engaging stories, and his gentle nature. He is survived by his first cousins.

Hermann C. “Herm” Sommer ’52 M.F.

(1927 – 2018) passed away on March 14 in University Place, Wash. A resident of Tacoma, Wash., he was born in Chicago in 1927. Herm graduated from Oregon State University and earned his master’s degree from the Yale School of Forestry. He then served with the U.S. Army Reserves Corps of Engineers. He was employed by Weyerhaeuser for 32 years and as a management consultant for 15 years. Herm was deeply involved with the Boy Scouts of America, Pacific Logging Congress, Cascade Club, and St. Mary’s Episcopal Church. He is survived by his wife, Mary Lou, three children, four grandchildren, one great-grandchild, and his sister.

Hazel F. Tuttle ’82 M.F.S.

(1923 – 2017) passed away on September 12, 2017 in Fort Collins, Colo. Born in Rye, N.Y., Hazel attended Sweet Briar College for her bachelor’s degree and the Yale School of Forestry & Environmental Studies for her master’s degree. She spent many years living in Middlebury, Conn. and working at Waterbury Hospital as a forestry consultant. She was extremely passionate about mushrooms and trees; she frequently shared her understanding with others and put her knowledge to good use. She was an active member of organizations including the Connecticut Forest and Park Association, the Colorado Mycological Society, and the Society of American Foresters. Hazel was also a philanthropist, giving generously. She is survived by her six children, 12 grandchildren, and one great-granddaughter.

Geoffrey R. “Jed” Wright ’94 M.E.S.

(1962 – 2017) passed away on October 6, 2017. Jed was born in Cambridge, Mass. and attended Bates College for his undergraduate studies. He received master’s degrees from the State University of New York, Buffalo and the Yale School of Forestry & Environmental Studies. Jed’s early career led him to work for the Institute for Transportation and Development Policy. He also worked for the Southern Africa Department of the World Bank, traveling to Mozambique and Angola, and helped with rural planning and refugee resettlement by designing a national land use and mapping program. He went on to work for the U.S. Fish and Wildlife Service on the Gulf of Maine Coastal Program/ Fisheries Stewardship Project in Falmouth, Maine. Jed managed the Atlantic Salmon Conservation Fund, and in this role he was able to help protect thousands of acres of riparian habitat. He also supported local conservation organizations and approached restoration by exploring novel concepts. Additionally, Jed truly enjoyed mentoring young environmentalists – he took on interns and volunteered with Falmouth schools to involve fourth grade students in restocking salmon in local streams. He is survived by his mother, wife, and two children.

William A. “Bill” Turnage ’65 B.A., ’71 For

(1942 – 2017) passed away at his home in Mill Valley, Calif., on October 15, 2017. A graduate of Yale College, he was enrolled as a special student at the Yale School of Forestry between 1969 and 1971 while also managing the Chubb Fellowship program at Timothy Dwight College.

For almost four decades until his retirement last December, Bill was the managing trustee of the Ansel Adams Publishing Rights Trust, established by the photographer to safeguard his artistic work and legacy following his death. His trusteeship was a natural extension of a long association with Ansel Adams that began in 1970, when Bill invited him to Yale as a visiting Chubb Fellow. One evening, near the end of a week of lectures and seminars, he asked Bill to move to California to manage his business affairs.

Thus began a long and productive collaboration between the two men, which grew from artistic and business concerns to advocacy on environmental issues, even after Bill moved to Washington, D.C. in 1978 to lead The Wilderness Society.

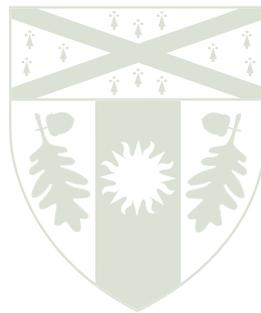
Bill’s tenure as President of The Wilderness Society was marked by a dramatic upturn in the profile, activism, and professionalism of the organization. He developed close ties with congressional leaders, and worked with a coalition of environmental groups, to gain passage of the Alaska Lands Conservation Act, signed by President Carter in 1980. The act protected 157 million acres of parks, wilderness, and wildlife refuges. During the Reagan years The Wilderness Society played aggressive defense. Bill was one of the first environmental leaders to challenge Reagan’s appointment of James Watt as Secretary of the Interior and continued to campaign against Watt’s policies until Watt’s resignation in 1983.

He is survived by his wife, Annemarie, two brothers, and two sisters.



Ansel Adams with Bill Turnage ’65 B.A., ’71 For (front center, left to right) at Yale the week they first met in 1970. Text (excerpted above) and photo courtesy of Bill’s brother Robert Turnage ’82 M.F.S.

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"I am still traveling throughout the Arctic in the company of Inuit and polar bears – from the Arctic National Wildlife Refuge in Alaska, through the Northwest Passage in Canada, to far northern Greenland – documenting the environmental and cultural changes taking place at the top of the world. The photo shows me toiling away in my office (the Baffin Island floe edge – 450 miles above the Arctic Circle and about 30 miles offshore out on the sea ice in Baffin Bay, Nunavut, Canada), working on a new photography book about the Arctic."

Steve Gorman '88 M.E.S.

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