



CENTER FOR PROTECTED
AREA MANAGEMENT
COLORADO STATE UNIVERSITY

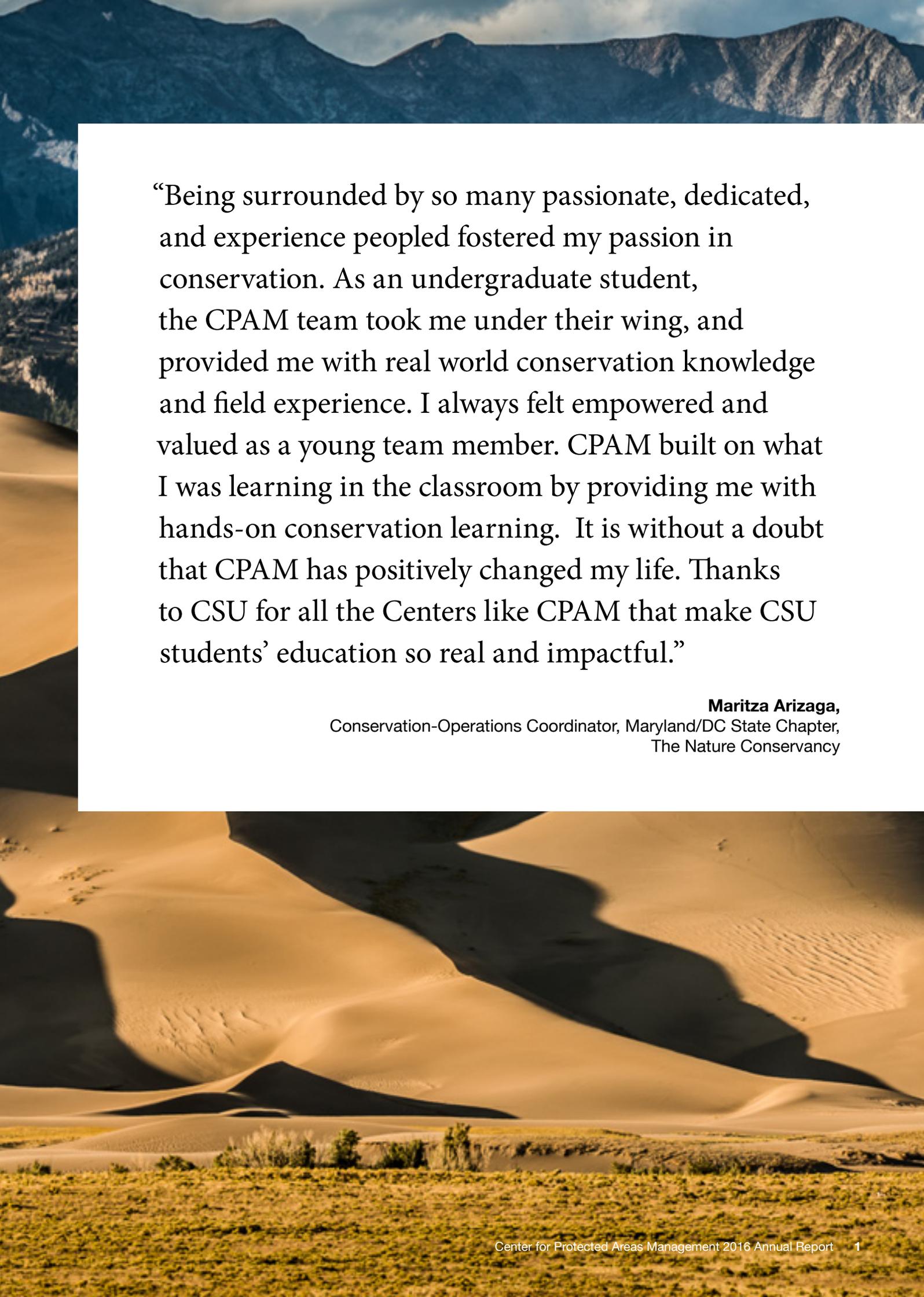
2016 Annual Report

Mission

The Center for Protected Area Management (CPAM) was formed to extend the CSU land-grant mission by contributing to the conservation, planning, and management of the world's protected areas and the landscapes and seascapes that connect them through capacity development, applied research, and technical collaboration, in partnership with organizations that manage and support protected areas and the communities whose well-being depends on them.

Contents

2	A Message from our Co-directors	6	2016 World Map of Course Participants
3	A Message from our Department Head	8	2016 Year in Review
4	Our Philosophy and Approach	13	Financial Overview
5	Highlighted Projects from 2016	14	Executive committee
		15	Staff and Associates



“Being surrounded by so many passionate, dedicated, and experience peopled fostered my passion in conservation. As an undergraduate student, the CPAM team took me under their wing, and provided me with real world conservation knowledge and field experience. I always felt empowered and valued as a young team member. CPAM built on what I was learning in the classroom by providing me with hands-on conservation learning. It is without a doubt that CPAM has positively changed my life. Thanks to CSU for all the Centers like CPAM that make CSU students’ education so real and impactful.”

Maritza Arizaga,
Conservation-Operations Coordinator, Maryland/DC State Chapter,
The Nature Conservancy

A Message from our Co-directors

This was a banner year for CPAM. The number of conservation training events, participants in them, and countries represented, all grew considerably. We partnered with the US National Park Service, US Forest Service, WWF, the Thin Green Line Foundation, and the US Association of National Park Rangers to organize two special ranger courses in conjunction with the World Ranger Congress in Colorado that gave 59 rangers from 20 countries the opportunity to exchange ideas on how to deal with threats like poaching, land invasions and increasing tourism, while visiting some of the most iconic protected areas in the US West and learning management tools from their staff. Our 27th annual Spanish language International Protected Area Management Course and 4th annual Tourism and Protected Area Seminar attracted excellent participants from around the world. Our program of cooperation with Brazil's Chico Mendes Institute for Biodiversity, USFS and USAID continued to build capacity for managing tourism to protected areas, increasing livelihood options for local communities, and connecting Brazilians with their large and diverse park system. Our program of providing basic training to the entire Panamanian ranger corps is nearing completion, and we began a similar multi-year program to provide basic training for the entire Paraguayan ranger corps. We participated actively in international fora like the World Conservation Congress in Hawaii, a meeting of global protected area capacity development specialists in the UK, and the first national ecotourism congress in Spain. We began two exciting new cooperative ventures with the US National Park Service. One recruits diverse CSU undergraduates for internship opportunities at Rocky Mountain



National Park; the other is to compile global good practices on ways to deal with noise and light pollution in parks. Our program of activities involved hard work and dedication by our excellent team of staff and CPAM's associated faculty members and conservation practitioners, and would not have been possible without the support of both traditional donors and partners like USFS International Programs Office, WWF, USAID and USNPS, the generous support of our own staff and associates, and help from important new partners. Our financial sustainability improved through growth in our still-modest endowment and full enrollment in our flagship courses, which allowed us to retain for the first time a full-time training coordinator.

We appreciate all of your assistance in helping us meet our ambitious goals for the year and we invite you to learn more about our 2016 activities in this annual report.

A handwritten signature in black ink, appearing to read "Ryan Finchum".

Ryan Finchum
Co-director

A handwritten signature in black ink, appearing to read "James R. Barborak".

Jim Barborak
Co-director

A Message from our Department Head



The history and tradition of our Department of Human Dimensions of Natural Resources (HDNR) is rooted in the parks and protected area movement that blossomed in the mid 20th century. Since our formation more than 65 years ago, we have been at the forefront of providing education for parks professionals, providing research that informs park decisions, and building the capacity of in-service protected area professionals. Our excellence has not only been achieved by world renowned faculty, but also by the similarly accomplished protected area professionals housed in the Department's Center for Protected Area Management (CPAM). The Center, a brainchild of now retired former faculty member Professor George Wallace, was intended to provide expertise and v to front line managers, particularly in Latin America. CPAM staff now work with professionals from over 36 countries around the world. CPAM has always brought a rich element to the more academic focus of HDNR. CPAM professionals provide a critical bridge between practitioners and the world of academia. Beyond that, we all benefit from the sharing of information, the mutual involvement in projects, and the innovation that arises from

collaboration. Ultimately, it is our students who are big winners in this arrangement as the presence of CPAM staff brings a unique "realistic" view of protected area management to our students.

Parks and protected areas are now seen as the primary policy mechanism by which we can protect biodiversity and the ecosystem services we rely on for sustainability. More than 15% of the world land base has been classified as protected by governments, non-governmental organizations, and communities. The success of this endeavor depends on our ability to manage and protect these areas. In that regard, I can think of no pursuit more important in the area of conservation than that of the Center for Protected Area Management. We are proud to have the Center associated with HDNR.

A handwritten signature in black ink, appearing to read "Mike Manfredo".

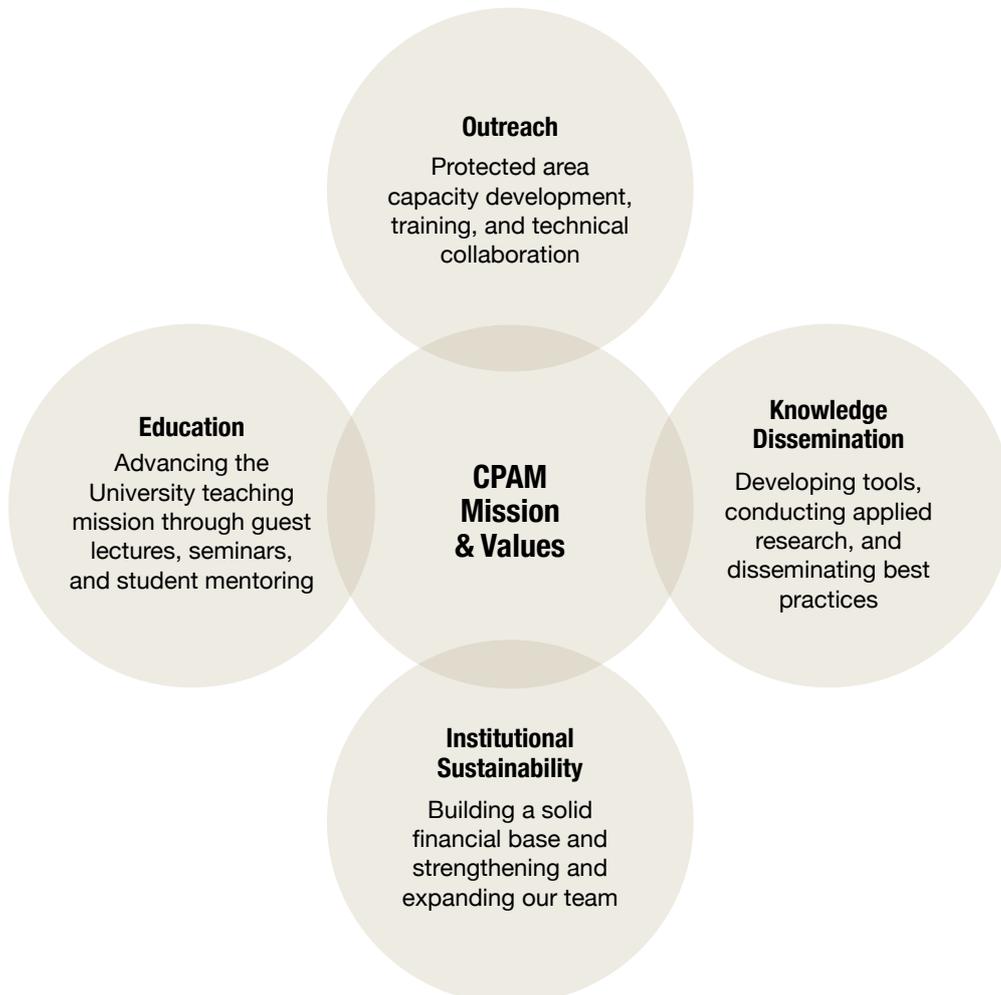
Mike Manfredo
Department Head, Human Dimensions
of Natural Resources

Our Philosophy and Approach

The Center for Protected Area Management helps implement the land grant mission of Colorado State University by contributing to natural resource management across our state, nation, and the world. Through the land grant mission we are in effect partners with the communities, institutions, and nations where we work, trying to solve conservation challenges and problems collaboratively. Together we focus our energy and resources to improve our human livelihoods today, while also ensuring the health and prosperity of future generations and the sound stewardship of the natural resources that are vital to their welfare.

Within this context we believe in the power of individual and institutional ingenuity to create

and adapt resilient systems and processes for the long-term, sustainable management of our natural resources, particularly protected areas on land and sea, the buffer zones that ring them, and the corridors that connect them. Therefore much of our focus is spent on conservation education and training. We invest time and resources disseminating knowledge and tools to empower early and mid-career men and women with the skills needed to be high-achieving conservation leaders who will guide us through considerable environmental change and uncertainty. We also bring lessons learned from innovators around the globe back to our University and local community, and work to make sure that as a University center we have a solid financial and technical base of operations.



Highlighted Projects from 2016



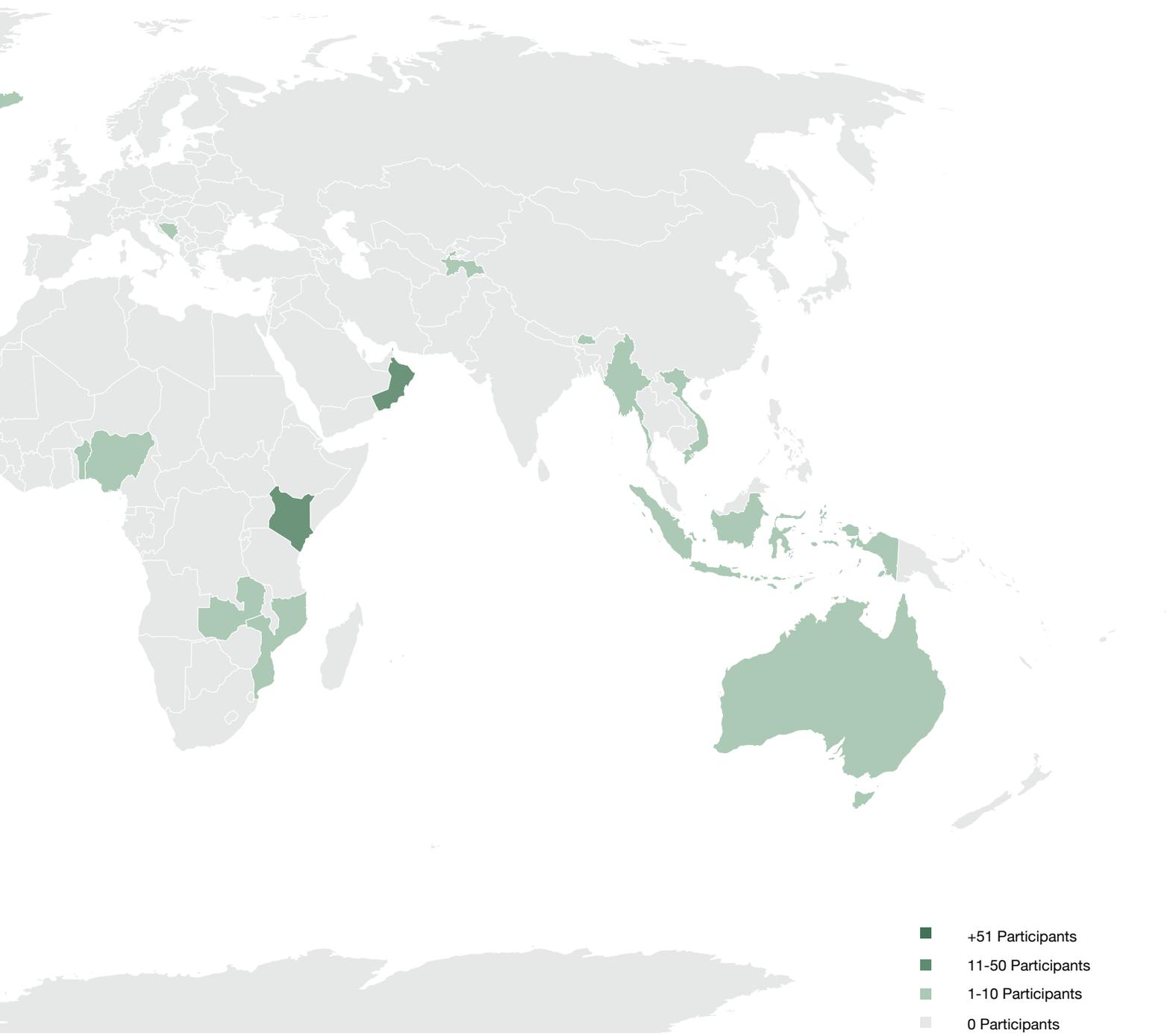
2016 World Map of Course Participants

Participants by Country

Country	Qty
Argentina	1
Australia	1
Belize	2
Benin	1
Bhutan	1
Bosnia & Herzgovina	1
Brazil	85
Chile	2
Colombia	6
Costa Rica	8
Cuba	22
Ecuador	5
Honduras	2
Iceland	1
Guatemala	4
Indonesia	3
Kenya	11
Mexico	10
Mozambique	4
Myanmar	2
Nigeria	1
Oman	10
Panama	61
Paraguay	29
Peru	3
Suriname	1
Tajikistan	1
Uruguay	1
Vietnam	1
Zambia	1

30 countries, 281 participants





2016 Year in Review

1st Year | 58 Graduates

26th Year | 548+ Graduates



English and Spanish Language International Ranger Training Courses

In 2016, through a cooperative agreement with USNPS and with the help of other donors, CPAM carried out two 10-day ranger courses before and after the 8th World Ranger Congress, in Estes Park, Colorado. The English language course featured 28 participants from 14 countries in Asia, Africa, South and Central America, and Europe, and featured visits to national parks, forests and wildlife refuges in Colorado and Utah including Arches, Mesa Verde, Great Sand Dunes, and Colorado National Monument. The Spanish language course was held after the Ranger Congress, and featured 30 participants from 10 Latin American countries, and included visits to Dinosaur National Monument and Yellowstone and Grand Teton National Parks. The participants in both courses engaged with personnel working for US government agencies and NGOs on themes like multiple-use management; collaborative management by state and federal agencies; managing for natural and cultural values; and visitor management.



Annual Spanish-language Protected Area Management Course

In 2016 we completed the 26th edition of our annual Protected Area Management course. This past year we had 23 participants from 10 countries spend a month in Colorado, Wyoming, and Utah, visiting a variety of protected areas and exchanging information and ideas with each other as well as conservation and protected areas professional from a variety of organizations. Key topics included leadership; planning; adaptive management; engaging diverse stakeholders; managing tourism in protected areas; field skills development; conservation governance and finance; communication skills; and climate change. Participants are required to write leadership and action plans, and seminar directors and staff follow up with participants periodically on progress made. To date we have had over 548 participants from 26 countries participate in the course.

4th Year

76+ Graduates

12-sign interpretive backpack
to support 5 communities



Annual English-language Tourism and Protected Areas Seminar

In September 2016, we conducted the 4th annual Seminar on Planning and Managing Tourism in Protected Areas with 26 participants from 9 countries, including never before represented countries like Oman and Bosnia-Herzegovina. This seminar was co-led by the CPAM co-directors and Dr. Steve McCool from the University of Montana. Audrey Ek and Jim Wurz also played important roles. Over 2000 miles were covered in 4 western US states as we visited 9 National Park units, 3 National Forests, and sites managed by state, local, and tribal governments. We met with park staff, NGOs and private sector concessionaires. Participants developed action plans during the seminar that they presented in Grand Teton National Park in the final days of the seminar.

Development of an interpretive backpack to support traditional rainforest community guides

We worked with local community members, national forest officials, artists, and graphic designers to develop an interpretive backpack that local community guides can use to enhance communication with visitors. This backpack is an over-the-shoulder satchel that contains 12 round, bilingual interpretive signs that empower community guides with visually appealing and poetic explanations of many of the unique characteristics of the Tapajos National Forest. The signs contain messages identified by both local community members and the Chico Mendes Institute for Biodiversity Conservation. Instead of replacing or competing with local guides, this tool will enhance visitor communication, serve local environmental education needs, and provide the guides with a tool to professionalize their guided hikes.

3rd Year

75 graduates

Supporting the National Park Service



Amazon National Park Seminar held on Marajo Island at the Mouth of the Amazon River, Brazil

For the third year in a row, we held a seminar in the Amazon focused on bringing together communities, NGOs, and government officials at the local, state, and federal level to discuss the future of tourism in protected area in the Amazon basin of Brazil. In 2016 the seminar was held in the Soure Marine Extraction Reserve on Marajo Island in the Brazilian State of Para. We had 27 participants from across the Amazon basin, with a special focus on participants from Marajo and nearby Belem. Technical focus of the workshop was on tourism zoning, community-based tourism, tourism products, and interpretation. In 2017 we are planning to do a 4th edition of the seminar in Manaus in the Brazilian State of Amazonas.



Cooperative Agreement with USNPS

CPAM is implementing an 18-month initial agreement with the NPS Natural Sounds and Night Skies Division to identify and dissemination information on good practices in managing light and noise pollution and promoting natural soundscapes and dark skies in protected areas. Research Associate Rina Hauptfeld, with support from the CPAM co-directors and several interns, has conducted an in-depth literature review of ongoing international initiatives, organized and conducted a session at the World Conservation Congress, and organized and facilitated the first meeting of the Natural Sounds and Night Skies Advisory Group of IUCN/WCPA. Future objectives include continuing engagement of the Natural Sounds advisory group, creating a website for the working group, completing a comparative study of international initiatives to inform a searchable spatial display of current initiatives, and supporting international capacity building efforts relating to natural sounds.

10 cohorts, 258 rangers trained



Continuation of National Ranger Training Initiative in Panama

As part of a multi-year collaborative initiative with Panama's Ministry of the Environment, the University of Panama and the Smithsonian Tropical Research Institute, CPAM conducted additional training modules on public use planning, the role of the ranger and trail and park infrastructure planning and development. To date over 250 Panamanian rangers have completed the training and the final training modules for remaining rangers that have not yet attended will be led by CPAM associates Craig MacFarland, Alan Moore, Adrian Benedetti and Larry Lechner between January and July of 2017. CPAM hopes to begin a second phase of our collaboration late in 2017 focused on technical staff and protected area directors.

25 rangers trained



Start of Multi-year Paraguay Ranger Training Program

In 2016 we started a multi-year training program in Paraguay aimed at providing module-based training to all new and existing rangers in the country. The Paraguayan Ministry of Environment has recently hired dozens of new rangers, and there are also a growing number of rangers working in watershed authorities and private nature reserves. The Paraguayan government and collaborating organizations want to ensure that this growing ranger force possesses the knowledge and skills to adequately protect Paraguay's protected area system, in light of continued threats including poaching, fires and deforestation, and to manage increasing tourism. In 2016 course organizers and facilitators Craig MacFarland, Larry Lechner and Alan Moore participated in three sessions with the first cohort of 22 rangers. Two additional cohorts of approximately 50 rangers are to be trained in 2017, and additional short courses for conservation trainers and chief rangers and park directors is also planned.

Student support for CPAM

Hawaii and Spain



Work Study Projects: Story Maps, Sustainability Audit

As part of an independent study project, Maritza Arizaga created two interactive “Story Map” projects that highlight each of our two flagship courses. These story maps are geospatial visual tools that allow us to better tell a story about each course, including a walk-through of each course’s itinerary with photos and geo-referenced points, and past participant testimonials. Additionally, in an effort to align our Center’s sustainability performance with our mission, we have enlisted the help of work-study student Dominique Ashe to do a CPAM sustainability audit. This process includes meeting with sustainability experts on campus to understand the metrics and tools available for monitoring and reducing our environmental footprint, and then applying those tools to CPAM, soliciting information from the CPAM team on their travel and on impacts associated with CPAM training events.

Participation in International Conservation Events

CPAM annually participates in national and international congresses and workshops to share lessons learned from our quarter-century of experience in conservation capacity development, and to learn from others working on similar topics around the world. This year, CPAM was actively involved in several international conservation events include the International Union for Conservation of Nature’s World Conservation Congress in Hawaii, the first Spanish Congress on Ecotourism, and a workshop in the United Kingdom of IUCN’s World Commission on Protected Areas (WCPA) capacity development task force. Through our collaborative project on Natural Sounds and Night Skies with the USNPS, Rina Hauptfeld organized and facilitated a session at the World Conservation Congress on natural sounds, which featured presentations by experts and breakout groups. Rina and Jim also ran the first meeting for the Natural Sounds Working Group of WCPA at the congress.

Financial Overview

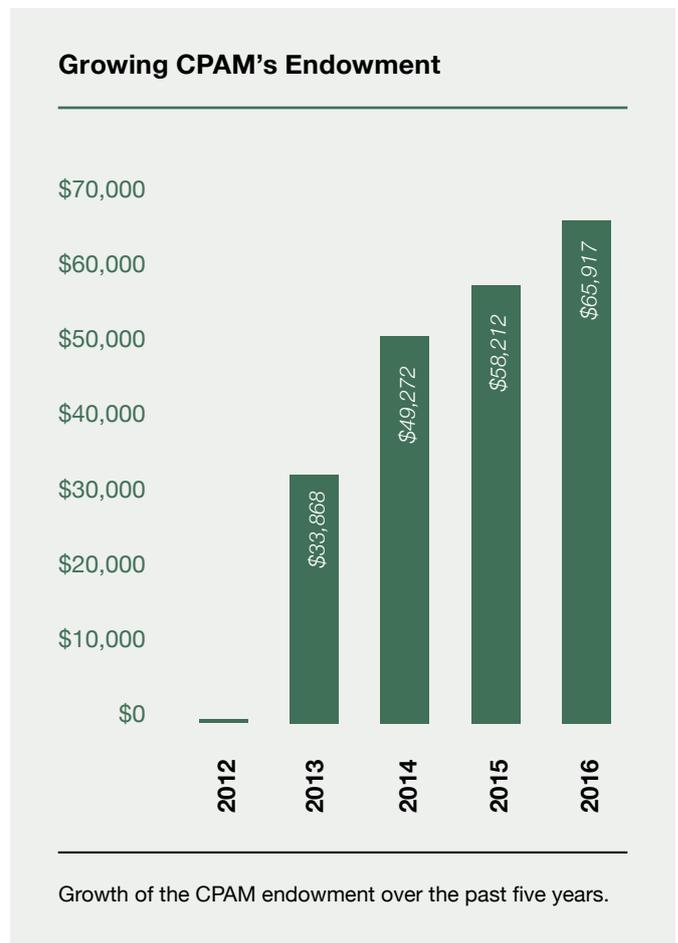
The Center for Protected Area Management is a “soft-money” center that is responsible for raising money to cover the cost of its operations through project funding and donations. We are housed within the Human Dimensions of Natural Resources Department, which provides us with our office space and administrative support. However, the bulk of the funding that drives our impact in the world comes from projects with conservation and development agencies and philanthropic organizations around the world. An increasingly important part of our day-to-day operations is funded by our growing endowment and contributions by individual supporters of our work. In 2016 we developed a new three-year strategic and business plan that laid out a number of opportunities for CPAM to achieve a more sustainable financial future.

Endowment & Project Funding

In order to ensure the financial sustainability of CPAM’s work over time, an endowment has been initiated with a generous gift from George and Nancy Wallace that will provide on-going funding in support of our mission. This endowment is growing thanks to contributions from our own team and from individual supporters who believe in our work. Our goal is to grow our endowment from the initial contribution of \$25,000 to over \$500,000 in 10 years. The bulk of our funding comes from specific partnerships or projects where CPAM teams up with organizations around the globe to support protected areas through a variety of capacity development and technical collaboration initiatives. Over the coming years we will continue diversifying our partnership base and positioning our skillset to match the needs of the front line managers and conservation NGOs around the globe. In addition, we will continue to build on our existing community-based projects that help align local community livelihood activities and protected area and conservation goals.

Sustainability

In 2016, we had a CSU student start to undertake a sustainability assessment of CPAM’s operations. The results of the initial assessment will be reported on in our 2017 annual report. We look forward to implementing best practices to reduce our carbon footprint, improve sustainability of our purchases, and look for increased ways to buy locally and support local businesses.



Executive Committee



Jim Barborak
Co-director



Ryan Finchum
Co-director



Dr. George Wallace
Founder and Director Emeritus



Jim Wurz
Founder and Associate



Dr. Stu Cottrell
Faculty Associate



Dr. Jennifer Solomon
Faculty Associate



Dr. Chris Mayer
Associate



Dr. Craig MacFarland
Founder and Associate
Emeritus



Larry Lechner
Founder and Associate
Emeritus

Staff and Associates



Audrey Ek-Psomas
Project Coordinator



Maritza Arizaga
Executive Assistant



Rina Hauptfeld
Research Associate



Lorena Mondragón
Communications



Dominique Ashe
Student Assistant



Valeria Cintora
Student Assistant



Dr. Tara Teel
Associate



Dr. Kelly Jones
Associate



Dr. Rebecca Gruby
Associate



Dr. Mike Gavin
Associate



Allan Rhodes
Associate



Adrian Benedetti
Associate



Dr. Peter Newman
Associate



Alan Moore
Associate



Dr. Mike Manfredo
Associate



Mark Willuhn
Associate



Dr. Miguel Milano
Associate



Susan Pierce
Associate



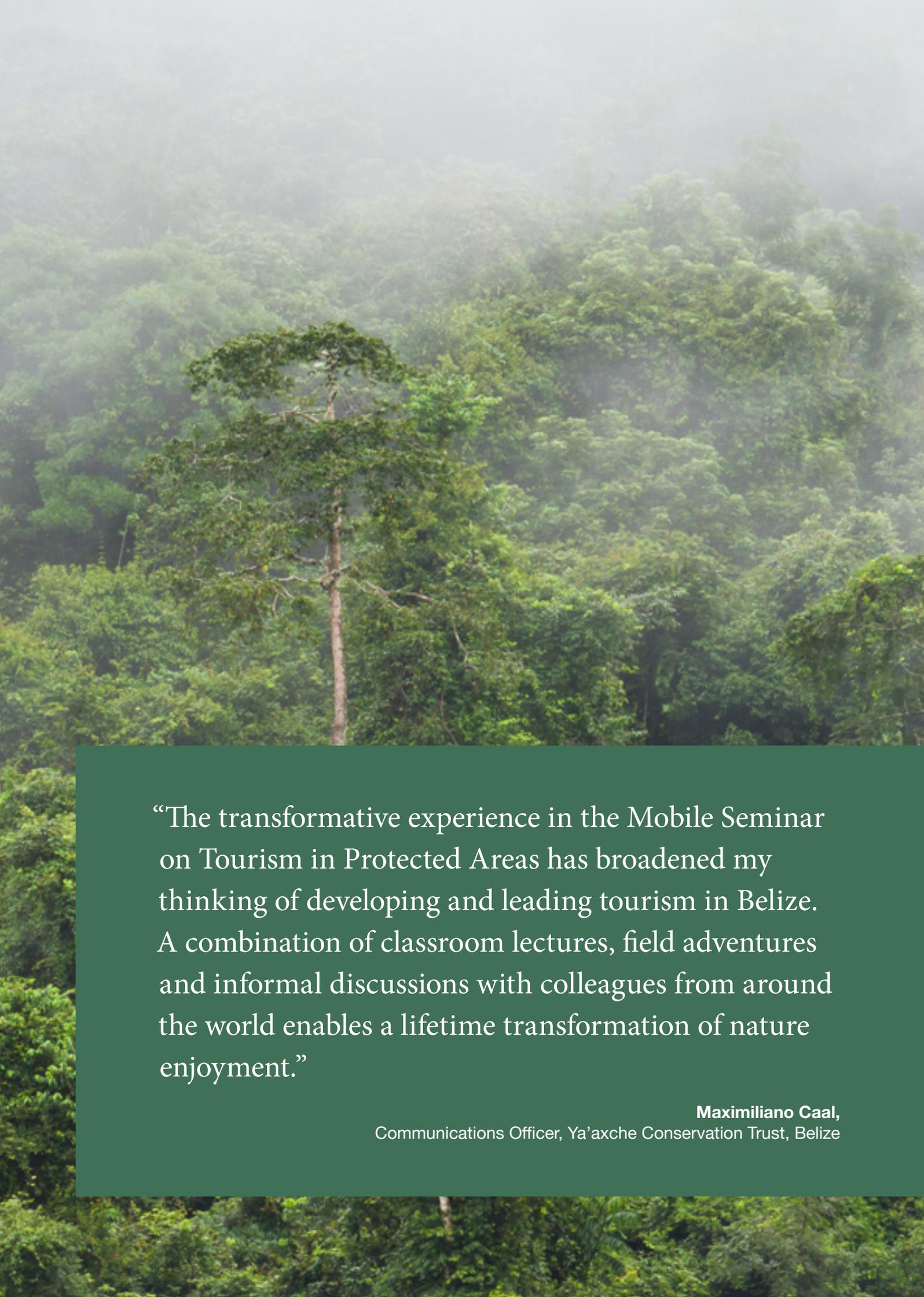
Michael Olwyler
Associate



Dr. Steve McCool
Associate



Tropical Rainforest, Toledo District, Belize

A photograph of a dense, lush green forest. In the foreground, a single, tall tree with a thick trunk and a full canopy of green leaves stands out against the background. The rest of the forest is a thick wall of various shades of green, extending to a hazy, misty horizon. The overall atmosphere is serene and natural.

“The transformative experience in the Mobile Seminar on Tourism in Protected Areas has broadened my thinking of developing and leading tourism in Belize. A combination of classroom lectures, field adventures and informal discussions with colleagues from around the world enables a lifetime transformation of nature enjoyment.”

Maximiliano Caal,
Communications Officer, Ya'axche Conservation Trust, Belize

To learn more about CPAM's work with protected areas, the people who manage them, and the communities who depend on them, please visit:

<http://warnercnr.colostate.edu/cpamt-home>



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Cover: Canyonlands National Park, Utah

