

File No. 160496

Committee Item No. 2

Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Rules Committee

Date May 12, 2016

Board of Supervisors Meeting

Date _____

Cmte Board

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| <input type="checkbox"/> | <input type="checkbox"/> | Budget and Legislative Analyst Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Legislative Analyst Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Youth Commission Report |
| <input type="checkbox"/> | <input type="checkbox"/> | Introduction Form (for hearings) |
| <input type="checkbox"/> | <input type="checkbox"/> | Department/Agency Cover Letter and/or Report |
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| <input type="checkbox"/> | <input type="checkbox"/> | Grant Information Form |
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| <input type="checkbox"/> | <input type="checkbox"/> | Form 126 – Ethics Commission |
| <input type="checkbox"/> | <input type="checkbox"/> | Award Letter |
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| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>Information Sheet</u> |
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Completed by: Derek Evans Date May 6, 2016

Completed by: _____ Date _____

An asterisked item represents the cover sheet to a document that exceeds 25 pages.
The complete document can be found in the file.

Save Form

Print Form



Board of Supervisors
City and County of San Francisco
1 Dr. Carlton B. Goodlett Place, Room 244
(415) 554-5184 FAX (415) 554-7714

RECEIVED
BOARD OF SUPERVISORS
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Application for Boards, Commissions, Committees, & Task Forces

Name of Board, Commission, Committee, or Task Force: Urban Forest Council

Seat # or Category (If applicable): #5, 4 District: _____

Name: Meg Lowman

Home Address: Belevedere Tiburon CA Zip: 940240

Home Phone: [REDACTED] Occupation: Educator

Work Phone: 415 379 5820 Employer: California Academy of Sciences

Business Address: 55 Music Concourse Drive San Francisco Zip: 94118

Business E-Mail: mlowman@calacademy.org Home E-Mail: [REDACTED]

Pursuant to Charter Section 4.101 (a)2, Boards and Commissions established by the Charter must consist of electors (registered voters) of the City and County of San Francisco. For certain other bodies, the Board of Supervisors can waive the residency requirement.

Check All That Apply:

Registered voter in San Francisco: Yes No If No, where registered: florida

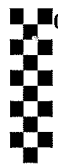
Resident of San Francisco Yes No If No, place of residence: Tiburon CA

Pursuant to Charter section 4.101 (a)1, please state how your qualifications represent the communities of interest, neighborhoods, and the diversity in ethnicity, race, age, sex, sexual orientation, gender identity, types of disabilities, and any other relevant demographic qualities of the City and County of San Francisco:

I have been called the "real-life Lorax" by National Geographic and the "Eienstein of the treetops" by the Wall Street Journal. I ahv pioneered the science of canopy ecology. For the past 30 years I have led tree top expoloration to solve mysteries of the world's forest, especially insect pests and ecosytem health.

I have just recently moved to San Francisco to take a position of Chief of Science and Sustainablitty as the Lidsay Chair of Botany at Cal Academy. I am very interested in working on issues that face the urban forest in San Francisco

I just finished my very first year at Cal Academy and I have decided that it is time to start giving back to the San Francisco community and I feel that the best way I can do this is by bringing my expertice and experince to the Urban Forest Council



Business and/or professional experience:

Ran a non profit Tree Foundation
Led a Botanical Garden
Worked in Canopy Walkway Constrution for a number of years

Civic Activities:

led Bio Blitz's all throughout the Bay Area
Lecture underserved youth on citizen science
Picked as one of the most influential women by the San Francisco Buisness Times in 2014

Have you attended any meetings of the Board/Commission to which you wish appointment? Yes No

For appointments by the Board of Supervisors, appearance before the RULES COMMITTEE is a requirement before any appointment can be made. *(Applications must be received 10 days before the scheduled hearing.)*

Date: 1/9/2015 **Applicant's Signature: (required)** Meg Lowman

(Manually sign or type your complete name.
NOTE: By typing your complete name, you are hereby consenting to use of electronic signature.)

Please Note: Your application will be retained for one year. Once Completed, this form, including all attachments, become public record.

FOR OFFICE USE ONLY:
Appointed to Seat #: _____ Term Expires: _____ Date Seat was Vacated: _____

01/20/12

MARGARET DALZELL LOWMAN

Chief of Science & Sustainability

Harry and Diane Hind Dean, Lindsay Chair of Botany
The Institute for Biodiversity Science and Sustainability
California Academy of Sciences
55 Music Concourse Drive, San Francisco CA 94118
www.calacademy.org

CURRICULUM VITAE

Citizenship: USA

Email: mlozman@calacademy.org

Work: (415) 379-5820

Twitter: #canopymeg

Website: www.canopymeg.com

EDUCATION

- 2006 Aldo Leopold Leadership Fellowship Program
2004 Disney Leadership Institute for Biodiversity
2002 Tuck School of Business, Dartmouth College, Executive Management
1983 University of Sydney, Australia. Ph.D. Botany
1978 University of Aberdeen, Scotland. M.Sc. Ecology
1976 Williams College, MA. B.A. Biology, cum laude
Minor in Geology and Environmental Studies

EMPLOYMENT

- 2014 - on **Chief of Science and Sustainability**, California Academy of Sciences, includes oversight to ~80 curators and collections staff, stewardship of 45+ million collections, creating sustainable initiatives throughout all research programs, and serving as an external science voice for the Academy both locally and globally
- 2010 - 2014 **Director**, Nature Research Center, NC Museum of Natural Sciences (including director of global initiatives and academic partnerships); and **Research Professor**, College of Sciences, NC State University
- 2003 - on **Science columnist**, News & Observer, Charlotte Tribune, NC; Herald Tribune, FL
- 2003 - 2010 **Director of Environmental Initiatives**, and **Professor of Biology and Environmental Studies**, New College of Florida and Sarasota County Regional Government Science Outreach Partnership
- 1999 - 2003 **Chief Executive Officer**, Selby Botanical Gardens, FL
- 1992 - on **Adjunct Professorships** at Williams College, University of Florida, University of South Florida (Tampa), New College of Florida, Ringling School of Art & Design, FL, Jimma University (Ethiopia), Bahir Dar University (Ethiopia)
- 1992 - 1999 **Director of Research & Conservation** and **Jessie Cox Chair in Tropical Botany**, Selby Botanical Gardens, FL
- 1989 - 1992 **Visiting Professor of Biology & Environmental Studies**, Williams College, MA
- 1988 - 1989 **Lecturer in Botany**, University of New England, Australia
- 1983 - 1989 **Co-manager**, Ruby Hills Pastoral Company, Walcha NSW Australia
- 1983 - 1987 **Postdoctoral Fellow**, Zoology Department, University of New England
- 1978 - 1981 **Lecturer in Adult Education**, Sydney University

ACADEMIC SCHOLARSHIPS

Graduate and Undergraduate

- 1983 - 1987 Australian Research Council Postdoctoral Fellowship
- 1983 Sydney University, Australian Museum Award for postgraduate research
- 1979 - 1983 Sydney University Fellowship
- 1976 - 1977 Duke University Fellowship
- 1976 Williams College, Dwight Botanical Prize
- 1974 Williams College, Geology Summer Field Camp Scholarship
- 1972 - 1976 Williams College, Dean's List

PROFESSIONAL HONORS

- 2015 Honorary Doctorate in Science & commencement speaker, Elmira College
- 2014 Honorary Doctorate in Science & commencement speaker, Wilson College
- 2014 **Roy Chapman Andrews Distinguished Explorer Award**
- 2014 Selected as one of San Francisco's "50 Distinguished Women Business Leaders"
- 2014 Invited keynote speaker, EO Wilson Biodiversity Symposium, Alabama; bestowed title of "Her Highness" by EO Wilson (as Sylvia Earle is "Her Deepness")
- 2013 Rolex Foundation invited juror to select youth award finalists
- 2013 **Fulbright Senior Specialist Scholar to Ethiopia**
- 2012 Rolex invited Forum speaker, Rolex Awards Ceremony, New Delhi India
- 2012 Appalachian State University, commencement speaker
- 2012 Invited to serve, White House Women and the Environment Summit
- 2011 **Fulbright Senior Specialist Scholar to India**
- 2010 Research Fellow, Environmental Change Institute, Oxford University, UK
- 2010 Dictor-Martin Civic Award, Year of Biodiversity Leadership, Sarasota
- 2009 ACE (Achievements in Canopy Ecology) international award, Bangalore, India
- 2009 Selected as Florida Trend Business Magazine "Icon" for February 2009
- 2009 Tampa FL Women's history month honoree for "conservation of the planet"
- 2008 - 2013 **Fulbright Board Senior Specialist Scholar status**
- 2008 - on Elected to Earthwatch Board of Directors
- 2008 Elected Fellow of Wings WorldQuest, honoring women in exploration
- 2007 - 2009 Science Advisor for Climate Change to Florida CFO, Alex Sink
- 2007 - 2009 Elected Vice President for Research and Education, The Explorers Club
- 2007 Florida Society of Botanical Artists - Gaia Award for Excellence
- 2007 Appointed to NEON Education Tiger Team (National Ecological Observatory Network)
- 2007 **Mendel Medal for achievement in science & spirit, Villanova University**
- 2006 - on Advisory Board for Floresta (linking deforestation to poverty and finding solutions)
- 2006 - 2012 Elected Vice President for Education & Human Resources, Ecological Society of America (and re-elected)
- 2006 Aldo Leopold Leadership Fellow
- 2006 **Lowell Thomas Medal for Biodiversity Exploration, The Explorers Club**
- 2006 Nominated for Weizmann Women and Science Award
- 2005 - 2011 Elected to the Board of Directors, The Explorers Club (and re-elected)
- 2005 - 2008 **NEON senior design team** (to write the \$400 mil grant for ecological observatories)
- 2004 **Chief Scientist, The Jason Project** in Science Education w/Bob Ballard - Panama: Rain Forests at the Crossroads
- 2003 Disney Leadership Institute for Biodiversity (with World Wildlife Fund)
- 2003 Woman in Power Award, National Council of Jewish Women (NCJW)
- 2003 Certificate of Honor, Sarasota County Commission on the Status of Women
- 2003 **Asteroid (10739) Lowman** named by Carolyn Shoemaker, US Dept. of Interior
- 2002 Kilby Laureate Medalist honoring work as a rainforest canopy expert

- 2002 **Ecological Society of America, Eugene P Odum Award for Excellence in Ecology Education**
- 2001 - 2004 Elected by Williams College alumni as Board of Trustees Tyng Administrator
- 2001 Florida Gubernatorial appointment to Board of Directors, New College of Florida
- 2001 AABGA Award for Program Excellence for creating two elevated canopy walkways, one at Selby Gardens and one at Myakka State Park
- 2000 Girls, Inc. Visionary Award for Public Science & Education Outreach
- 2000 **Williams College Bicentennial Medal for achievements in tropical botany**
- 2000 Phi Delta Gamma Educators' Award for book, Life in the Treetops
- 1999 Margaret Douglas Medal from National Garden Club of America for Conservation Education
- 1999 **Chief Scientist, The Jason Project in Education w/Bob Ballard in the Amazon, Peru**
- 1999 Board of Scientific Advisors, Amazon Center for Education & Environmental Research
- 1998 Selection to Leadership Florida, Class XVI
- 1997 Elected Fellow of The Explorers Club
- 1995 - on Board of Scientific Advisors, Intl. Center for Tropical Biology, University of Missouri
- 1994 **Chief Scientist, The Jason Project in Science Education w/Bob Ballard in Belize**
- 1994 Girl's Incorporated "She Knows Where She's Going" Award for mentoring girls in science
- 1993 Pew Scholar nominee in Conservation Biology
- 1992 - 1999 Selby Gardens, appointed to The Jessie B. Cox Endowed Chair in Tropical Botany
- 1991 - 1998 Education Board, Massachusetts Tropical Conservatory
- 1990 - 1995 Board of Science Advisors, Earthwatch

ADMINISTRATIVE and EDITORIAL ACTIVITIES

- 2014 Editor, California Academy of Sciences Proceedings
- 2014 Committee for 7th International Canopy Conference, London UK
- 2013 Co-editor, Treetops at Risk, edited volume from the 2009 Canopy Conference, India
- 2012 Co-chair (with Demetria Mondragon), 6th Intl. Canopy Conference, Oaxaca Mexico
- 2012 National Science Foundation, PIRE (Programs for International Research and Education) review panel
- 2011 National Science Foundation, Macrobiology review panel
- 2011 Chair, Teen Advisory Board for NC Museum of Natural Sciences
- 2010 - 2013 Founding Director, Nature Research Center, wing of NC Museum of Natural Sciences
- 2010 Chair, Informal Science Education panel (NSF); review panel, NSF Synthesis Centers
- 2009 Chair, Science Committee, The Explorers Club
- 2009 Co-chair (with Kamal Bawa), 5th International Canopy Conference, India
- 2007 - 2009 Vice President for Research and Education, The Explorers Club
- 2006 - 2012 Vice President Education & Diversity, Ecological Society of America (2 elected terms)
- 2005 - 2009 Director of New College/Sarasota County government science partnership
- 2003 - 2010 Inaugural Director of Environmental Initiatives, New College of Florida
- 2001 - on Founder and member of Science and Environment Council, Sarasota County (& Chair 2001-2003)
- 1998 - 2000 Finance Committee, Leadership Florida
- 1998 Co-chair (with Francis Hallé, France), 2nd International Canopy Conference: Global Perspectives (with participants from 35 countries)
- 1995 - 1998 Tropical studies initiative committee, European Science Foundation (ESF)
- 1994 Co-chair (with Francis Hallé, France), 1st International Canopy Conference (with participants from 28 countries)

- 1993 - 2009 Association for Tropical Biology & Conservation, Secretary-Treasurer
- 1992 - 1999 Editor for *Selbyana* (botanical journal of Selby Gardens)
- 1989 - 1992 Williams College, Center for Environmental Studies Faculty Committee
- 1987 - 1989 Association for Tropical Biology, elected Councilor
- 1979 - 1980 Sydney University, student representative to Board of Biological Sciences
- 1977 - 1978 Duke University, Advisory Committee to Dean
- 1977 - 1978 Duke University, Faculty Search Committee

Reviewer for *Science*, *Oecologia*, *Biotropica*, *Austral Ecology*, *National Science Foundation*, *Selbyana*, *Phytologia*, *Ecological Monographs*, *Journal of Ecology*, *European Science Foundation*, *Austrian Science Foundation*, *Earthwatch*, *Biological Journal of the Linnean Society*, *Smithsonian Institution*, *Journal of Tropical Ecology*, *National Geographic*, *Conservation Biology*, *African Journal of Agriculture, Ecology, Frontiers in Ecology and the Environment*, and many academic book publishers.

BUSINESS EXPERIENCE

- 2014 – on Chief of Science & Sustainability, California Academy of Sciences, with ~\$15 mil budget for research, exploration, collections maintenance, and staff
- 2010 - 2013 Director, Nature Research Center, NC Museum of Natural Sciences, a \$65 million science research and education technology wing of the state museum. My direct staff received \$11.7 million in grants during their first year
- 2008 Sustainability consultant to Tommy Hilfiger Foundation
- 2008 Chair, Mission/Vision committee, The Explorers Club (1st mission revision after 101 years, which required more business than science-savvy!)
- 2000 - on Founder & Executive Director, TREE Foundation, a 501(c)(3) organization dedicated to tree research, exploration, and education (<http://treefoundation.org>)
- 1999 - 2003 CEO of Marie Selby Botanical Gardens, Sarasota, day-to-day operations of botanical garden (budget \$3.4 million) including strategic planning, programs, fundraising and staffing, with highlights:
 - Budget up 25% over 4 years; membership up 46%
 - Budget deficit (of prior administration) moved to figures in the black
 - Implemented ongoing training and professional development for staff
 - Initiated global partnerships including Sister Garden relationships w/ Jardín Botánico Lankester, Cartago Costa Rica; Fundación Jardín Botánico de Orinoco, Ciudad Bolívar Venezuela and Cienfuegos Botanical Gardens, Cienfuegos Cuba
 - Completed renovations to historic Mansion; new perimeter delineation; new events pavilion; additional parking spaces (all under budget); property acquisitions to expand Gardens
 - Named one of America's Top Ten Botanical Gardens in 2003
 - Donor levels and annual appeals up over four-fold; first half-million dollar gifts in the history of the Gardens; raised \$2.2 million in 3 yrs. for Capital Campaign, most by direct solicitation; over 900 volunteers/yr. whose hours represented > \$1.5 million value-added
 - Opened Center for Canopy Ecology; expanded research department to include gesneriads, canopy ecology and conservation; living collections expanded by 102%
- 1994 - 2010 Treasurer, Association for Tropical Biology: created annual budgets, initiated computerized accounting and set up the Society's first endowment
- 1992 - on Co-founder, Canopy Construction Associates, a company that specializes construction of canopy walkways for research and education institutions worldwide; continued consultant on selection of canopy walkway sites from a biodiversity perspective

(www.canopyconstruction.com)

- 1992 - 1999 Director of Stark Research Center, Selby Gardens: oversaw administration, budget, grants, data collection, public relations, conferences, and outreach for eight staff and twenty-one volunteers; raised > \$ 2 million
- 1983 - 1990 Managed family agricultural operation, "Ruby Hills" merino fine wool sheep and Poll Hereford stud cattle operation in outback Australia: budgeting, oversight to genetics and breeding, agricultural products, record-keeping, maintenance of extensive property, shearing operations, bed-and-breakfast, and other revenue operations of a weather-related, market-driven business
- 1981 - 1989 Administered Earthwatch field expeditions in Australia, including budgets, purchasing, travel logistics, data analyses, and publications
- 1977 - 1978 Environmental Protection Agency, air pollution regulation division, Research Triangle
- 1972 - 1976 Assistant, Payroll Office, Williams College
- 1967-1975 Science camp counselor and teacher, Burgundy Center for Wildlife Studies, WV

TEACHING EXPERIENCE

- 2014 Celebrated 20th summer of teaching citizen science field expedition on "tropical canopy ecology" in Amazonian Peru
- 2011 - on Citizen science courses in tropical ecology; communication workshops for NCSU
- 2004 - 2010 Appointed Director of Environmental Initiatives, New College of Florida
- 2004 - 2007 Leader of New College Foundation natural history trips to Amazon, Galapagos, and Belize
- 2004 Florida Science Teachers Association - leader of Panama rain forest workshop
- 2003 - 2010 Professor of Biology and Environmental Studies, New College of Florida: Plant Ecology (Intro. and Advanced), Communities and Ecosystems, Environmental Issues senior tutorial, The Role of Women in Natural History, Science Outreach in Local Schools (SOS), Conservation Biology, The Ecology of Extreme Environments, Climate Change, Canopy Ecology, Science Education, Tropical Ecology; field courses to Antarctica, Belize, Galapagos, and Amazon
- 1999 - 2002 Williams College, Visiting Professor of Biology and Environmental Studies -Tropical Rainforests: Politics, Economics, Biology; Communities and Ecosystems; Environmental Studies; International Environmental Policy (tutorial); Conservation Biology; Women as Natural History Writers (tutorial)
- 1998 - 2002 Instructor for Williams College Alumni expeditions to Australia and Peru
- 1994 University of South Florida, Biology Department Adjunct - Conservation Biology
- 1993 - 1996 New College of Florida, Biology & Environmental Studies Department Adjunct - Conservation Biology, Environmental Botany, and Plant Ecology
- 1992 - on Numerous lectures for schools, civic clubs, and institutions (addressed over 5 million students and citizens in year 2000 alone, in part with distance learning)
- 1992 University of Minnesota - Conservation Biology (field course, Lake Itasca)
- 1986 Williams College, Biology Department - Australian Ecosystems, field course in Australia
- 1983 - 1987 University of New England, Australia, Botany Dept. - Agronomy, General Biology
- 1981 - 1989 Earthwatch, Principal Investigator, 10 field research expeditions in Australia
- 1979 - 1982 Sydney University, Lecturer, Adult Education Department - Plant Taxonomy, Plant Ecology, Beginning and Advanced sections
- 1979 - 1982 Sydney University, Teaching Assistantships - Plant Physiology, Plant Ecology, Plant & Animal Biology, Botanical Methods, and Natural Resources Ecology
- 1975 - 1976 Williams College, Teaching Assistantships - Field Botany, Environmental Biology,

Advanced Plant Ecology

TEACHING OUTREACH & INNOVATIVE EDUCATION

- 2014 TEDx Livermore, CA invited speaker: "How to Raise a Girl Scientist"
- 2014 Various innovative outreach activities: featured in Google Hangout, blog for Huffington Post, Scientific American Forum, numerous distance learning "meet-a-scientist" to middle schools in NY, MI, OH (who study my canopy research as statewide Science Next Generation Standards), CBS news interview on canopy access for mobility-limited
- 2014 Featured in National Geographic TV show, How to Climb a Tree (host: David Rees)
- 2012 - 2013 Created virtual "meet-the-scientist" programs in NC Museum of Natural Sciences' Daily Planet technology theater; hosted EO Wilson & others in "global town halls"; gave > 100 public talks to communicate and inspire fundraising for Museum's Nature Research Center; trained new staff to develop visual lab programs/grants/communication
- 2012 Featured by National Geographic as their "real-life Lorax"; called "Einstein of the treetops" by Wall Street Journal
- 2012 Invited delegate to the White House Summit on Women and the Environment
- 2010 - on Science columnist for News and Observer (Raleigh) and Charlotte newspapers, NC
- 2010 Co-chair, National Summit in Ecology Education entitled: Environmental Education for a Sustainable World in Washington DC
- 2010 Featured in Popular Science Magazine college issue: Top Ten Cool College Labs
- 2010 Featured in Oprah Magazine: Women Taking Risks
- 2010 Funded and hosted Rapid Response Training for Invasive Pythons in SW Florida
- 2009 Press (& Florida cabinet) delegate to UNFCCC (climate change meetings, Copenhagen)
- 2009 Florida Trend Magazine - Icon for February issue (audience mainly business leaders)
- 2008 - on Meg Lowman Treetops Camp - science mentor to at-risk teenage girls, annual camp
- 2008 Funded and hosted Invasive Reptile workshop for state of Florida
- 2008 PASI - National Science Foundation graduate workshop, taught canopy ecology in Peru
- 2008 Pierian Academy teaching adult ecology education
- 2007 Featured in National Geographic Explorer, Natural History, and Smithsonian magazines for canopy exploration
- 2007 "No Child Left Indoors" proclamation to city and county of Sarasota; charter for Ecological Society of America and other environmental groups
- 2006 - on Website: www.canopymeg.com (> 1 million hits per year)
- 2006 Interview featured in Smithsonian Magazine
- 2005 - on Science columnist *Nature's Secrets*: North Carolina's News & Observer and Charlotte Tribune, Sarasota Herald Tribune newspaper
- 2004 - on Tutoring New College of Florida students in environmental outreach: leading hikes in local parks and creating hands-on science activities in local middle schools; 53 students participated and earned County Environmental Education Award in 2006
- 2004 Jason XV Project for youth education in the rain forests of Panama (over 50 broadcasts for schools and museums during January 2004, 3 million students) and co-authored curricula
- 2002 HGTV host for two botanical shows
- 2001 New York Times/National Geographic Profile TV Series
- 1999 Jason X Project in Science Education, Chief Scientist - international K-12 science education in forest canopies of Amazonian Peru
- 1999 Scientist featured in National Geographic TV special, *Heroes of the High Frontier*
- 1995 - 2007 Led Educators' Workshops for teachers about tropical ecology in Peruvian Amazon
- 1994 Jason V Project, Chief Scientist - international K-12 science education program with

- satellite linkage between classrooms and scientist at field sites; completed 61 live classes from the rain forest canopy of Belize; wrote curriculum with National Science Teachers Association
- 1993 Produced Reading Rainbow feature film about trees w/ Lavar Burton (Star Trek), a national series to educate K-9 about science and reading
- 1991 Initiated first K-6 program for Williams College students to work with elementary classes to produce games that demonstrated environmental principles
- 1980 - on Lectures to numerous education groups including alumni societies, college students, high schools, and elementary classes each year
- 1979 - 1983 Sydney University, Adult Education - proposed and designed two new biology courses, and taught all lectures and labs
- 1977 Massachusetts Audubon Society, Merck Forest, Vermont
- 1968 - 1976 Taught science at one of America's first summer field science programs (Burgundy Wildlife Camp) and co-wrote curriculum from that program for the Department of Health, Education, and Welfare

BOOK PRIZES

- 2006 Natural History magazine, Endnotes featured **It's A Jungle Up There**; numerous NPR Radio interviews and newspaper features; Smithsonian Magazine "centerfold"
- 2002 Asteroid Lowman near Jupiter named by Carolyn Shoemaker in honor of book
- 2000 NY Public Library "**Books Every Teenager Should Read**" Award
- 2000 **Life in the Treetops** nominated for the Rachel Carson Book Prize, The John Burroughs Medal, The New York Book Award for the Best Debut of 1999, the 1998-2000 Educator's Award, PEN/Martha Albrand Award for the Art of the Memoir, Christopher Award, Phi Beta Kappa Award in Science
- 1999 Cover review on Sunday NY Times Book Review for **Life in the Treetops**

RESEARCH EXPERIENCE & GRANTS

- 2015-8 REU NSF grant – Undergraduate research in the cultural, economic, and ecological significance of church forests in South Gondar, Ethiopia (with Colby College, \$391,470)
- 2015-8 NSF REU - Wheelchairs and Waterbears: 3D Access to survey forest canopy biodiversity, with special emphasis on inspiring mobility-limited students to seek careers in field biology \$189,251 (pending).
- 2014 Minshall Foundation, \$75,000 to continue forest conservation, TREE Foundation
- 2013 Picker Foundation grant to survey church forests of Ethiopia (with Colgate U., \$148,000)
- 2013 Forest Service, biodiversity research and outreach in North Carolina (\$105,000)
- 2013-7 NSF MSP grant - Students Discover: Improving middle school STEM outcomes through scaling citizen science projects. (Co-PI for \$4,286,777.00 mil with NCSU and NC public schools)
- 2013 North Carolina university partnerships for Museum (~ \$433,000 per year)
- 2012 - 2014 National Science Foundation RUI grant: Insect Biodiversity in Temperate Forest Canopies - Using canopy research to inspire the physically challenged to engage in careers in science (\$149,000, pilot)
- 2012 National Science Foundation, Informal Science Education - Levels of Learning: How We Know What We Know (\$1,900,000, not successful)
- 2012 Forest Service partnership for biodiversity lab (\$130,000); Dunn lab partnership for Biodiversity Lab (\$90,000) and for Genomics Lab (~ \$150,000)
- 2011 Global town halls at NRC with Rolex Young Laureates, Rolex Corporation (\$25,000)

2011 Canopy Walkway for North Carolina Kids (submitted Z. Smith Reynolds Foundation for \$257,876)

2010 National Geographic - Conservation of Church Forests in Ethiopia (\$24,000)

2010 Ecology Education Summit (\$50,000 NSF; \$25,000 additional sponsors)

2010 Forest conservation and outreach (\$15,000 Spurlino Foundation; \$10,000 TRIAD)

2009 Church forests of Ethiopia, Spurlino Fdn (> \$15,000 for religion & science workshop)

2009 Forest canopies - Climate change, conservation and ecosystem services (NSF, \$31,000)

2009 Treehouses and canopy walkways - Ecology education in SW Florida (Triad, \$10,000)

2009 National Institute of Health (with PI Michael Kozhevnikov) - resubmitted (see below)

2008 Sarasota County - Invasive species ecology and ecology education (\$50,000)

2008 National Institute of Health (with PI Michael Kozhevnikov) - Integration of virtual reality-based 3-D simulations with outdoor activities in environmental science curriculum (\$99,999 submitted)

2008 National Science Foundation - Ecosystem services at the forest/village interface in Thailand - ecological processes and economic valuation (\$570,470, not funded)

2007 Economic Development Corporation, website development for regional government biological field station project (\$5,000)

2007 Canopy Ecology - regional and international (Triad, \$25,000)

2006 National Science Foundation, informal science education, rain forest exhibit (\$75,000)

2006 Student Outreach in Science (SOS) - Environmental education grant (Community Foundation, \$11,000 grant co-written with youth)

2005 - 2007 Canopy Ecology - Regional and international (Triad, \$35,000)

2005 Economic Development Corporation - Field station green design (\$5,000)

2004 - 2007 Sarasota County, environmental services to regional government (\$200,000)

2004 Jason X Project for Education, ACEER, Peru (~\$25,000)

2003 Aaron Foundation - Canopy ecology - Public programs (\$10,000)

2003 Herbivory protocols using canopy cranes - Global Canopy Program (\$26,178)

2002 Triad Foundation - Canopy ecology - Research and outreach (\$30,000)

2002 The Venice Foundation - Botanical collections (\$200,000)

2002 Phase I - Capital Campaign private donor acquisitions (\$1.3 million)

2002 Selby Foundation - Memorial for botanical philanthropist, Marie Selby (\$75,000)

2001 Bank of America education grant for children's garden exhibits (\$25,000)

2000 State of Florida - Division of Historical Resources - Botanical Collections Security (\$1.5 million)

1999 - 2003 National Science Foundation, links between the canopy and the forest floor (\$419,976) plus student participation: Ecological Circuitry Collaboratory (\$59,932)

1999 Selby Foundation - Matching grant for botanical improvements (\$500,000)

1998 - 2001 Long-term studies of trees in tropical and subtropical forests, worked with Joseph Connell and Ian Noble, National Science Foundation (\$250,000)

1998 - 1999 Phytotelm plants of the Choco and their associated insect fauna, National Geographic Society (\$20,000)

1998 Forest Canopies 1998: Global Perspectives - National Science Foundation (\$20,000); United Nations Environmental Program (\$20,000)

1997 Epiphyte diversity in intact versus fragmented rain forests of Cameroon, Africa, National Geographic Society (\$19,800)

1996 Canopy ecology and ecotourism in Western Samoa, Seacology Foundation (\$10,000)

1994 Forest Canopy Conference: Forest Canopies: Ecology, Biodiversity, and Conservation, NSF (\$20,000); World Wildlife Fund (\$5,000)

- 1993 - 1998 Long-term studies of trees in tropical and subtropical forests, with Joseph Connell and Ian Noble, NSF (\$250,000)
- 1993 - 1994 Jason V Project - Biodiversity in the rain forest canopies of Belize (~\$75,000)
- 1993 Smithsonian Visiting Scientist Fellowship to STRI, Panama (\$1,100)
- 1991 Herbivory in the rainforest canopies of Cameroon - Operation Canopée Expedition, Elf-Serepco (\$7,500)
- 1990 Canopy walkway construction, Hopkins Forest, Massachusetts, Miller Fund - Williams College (\$2,500) and Bronfman Science Fund (\$3,000)
- 1989 Mycorrhizal associations and survivorship of rain forest seedlings, UNE Faculty Grant for innovative projects (\$6,600)*
- 1985 Effects of insect damage to root systems of eucalypts, Earthwatch (\$27,000)
- 1983 - 1990 Eucalypt regeneration in dieback regions - Forestry Commission, Australian Research Grants Commission, Ruby Hills Pastoral Company (\$20,000)*
- 1983 - 1986 Postdoctoral research on herbivory and insect epidemics in Australian forests - Australian Research Grants Committee, with Harold Heatwole (\$122,600)*
- 1982 - 1988 Insect abundance and distribution in Australian rainforest canopies - Earthwatch (\$312,000 for multiple expeditions)
- 1979 - 1983 Miscellaneous marine research, including coral cay vegetation surveys, intertidal barnacle settlement, and photosynthesis on One Tree Island, Heron Island research labs, Great Barrier Reef and Cape Banks intertidal region, Sydney Australia
- 1976 Bronfman grant to reorganize herbarium for Williams College
- 1975 U.S. National Science Foundation REU student grant, investigating wood productivity of birch as energy source for New England towns (forest biomass surveys, computer regression models)
- 1974 Co-authored high school curriculum in environmental education for high schools (Department of Health, Education, and Welfare)

PUBLICATIONS

Books:

Lowman MD and W Mulat. 2014. Beza - Who Saved the Forests of Ethiopia, One Church at a Time. Peppertree Press (children's book), both English and Amharic versions.

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National Leadership Reports:

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NEON ISEP: 2006. National Ecological Observatory Network, Integrated Science and Education Plan. National NEON Design Committee, **MD Lowman** - co-chair education group, contributed to ISEP plan and writing: <http://www.neoninc.org/documents/ISEP>

Sarasota County Environmental Initiatives, FL. 2004-2009. Series of quarterly reports over 5 years to document environmental programs: invasive reptiles, science education outreach, development of Land Institute, conservation action plans, and other activities.

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Theses:

Lowman MD. 1982. Leaf Growth Dynamics and Herbivory in Australian Rain Forest Canopies. Ph.D. Thesis. Sydney University (Supervisor: Peter Myerscough and Joseph Connell).

Lowman MD. 1978. Phenology and Productivity of *Betula pendula* and *B. pubescens* in Scotland. Master's Thesis. Aberdeen University (Supervisor: Peter Ashton).

Lowman MD. 1976. Phenological Phenomena and Growth Studies for 16 Northern Hardwoods. Honors Thesis. Williams College (Supervisor: Henry Art).

Journal Articles (peer-reviewed except those with *):

Haefke, BJ, A Spiers, WR Miller & **MD Lowman**. 2014. Tardigrades of the canopy: *Doryphoribius elleneddiei* nov. sp. (Eutardigrada, Parachela, Hypsibiidae), a new species from eastern Kansas. Transactions Kansas Academy of Sciences 117: 299-304.

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Cardelús C, M Baimas-George, **M Lowman**, and A Wassie Eshete. 2013. Church forest status and carbon sequestration in northern Ethiopia. IN: *Treetops at Risk*. Springer: 119-122.

Devy S, T Ganesh, and **M Lowman**. 2013. "Canopy-less" monitoring of biodiversity and climate change: signs of a leaky roof. IN: *Treetops at Risk*. Springer: 169-177.

Heatwole H, S Unsicker, and **M Lowman**. 2013. Ontogeny of herbivory on leaves in a tropical rain forest in Madagascar. IN: *Treetops at Risk*. Springer: 295-305.

Kaganovskiy L and **M Lowman**. 2013. Modeling insect outbreaks in forest canopies: integration of virtual simulations with hands-on ecology for undergraduates. IN: *Treetops at Risk*. Springer: 341-352.

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Lowman MD. 1982. The effects of different rates and methods of leaf area removal on rainforest seedlings of coachwood (*Ceratopetalum apetalum*). *Australian Journal of Botany* 30: 477-483.

Lowman MD. 1982. Seasonal variations in insect abundance among three Australian rain forests, with particular reference to phytophagous types. *Australian Journal of Ecology* 7: 353-361.

Newspaper column **Nature's Secrets**, Sarasota Herald Tribune (March 2005 - on); over 100 public science newspaper feature articles on subjects ranging from climate change to local ecosystems.

<http://www.heraldtribune.com/apps/pbcs.dll/article?AID=/20050410/COLUMNIST18/504100972/-1/COLUMNIST>

Energy Tips published weekly in the E-column of state cabinet Chief Financial Officer, Alex Sink (2008 - on).

Newspaper fortnightly **Science Column**, Raleigh News and Observer/Charlotte News (2011- on).

(Note: Twenty peer-reviewed publications were co-authored with undergraduate students, as a result of my undergraduate teaching.)

INVITED, KEYNOTE AND CONFERENCE LECTURES (LIST IS NOT INCLUSIVE)

2010 – 2014

- 2014 – University of Chicago, 21st Century Scientists lecture series: Out on a Limb – challenges of women in science
- 2014 Diversity Lunch, Ecological Society of America: Game changers and innovation in Ecology
- 2014 Life in the treetops - Beloit High School, MI (~ 1000 students)
- 2014 It's a Jungle Up There - Challenges in global forest conservation, Roy Chapman Andrews Distinguished Explorer Award acceptance speech
- 2014 Keynote Opening speech, Science Online National Conference, Wheelchairs and Waterbears: inspiring underserved students in science, Raleigh NC
- 2014 Plant-insect interactions in forest canopies, EO Wilson Honorary Symposium
- 2014 Out on a Limb - Challenges of a woman in science, Wilson College commencement
- 2013 International Congress of Ecology (INTECOL) invited speaker - How religion and science can work together for integrated conservation solutions, London UK
- 2013 Biotechnology Center, Research Triangle Park, Summit introduction and moderator
- 2013 Students as catalysts for large landscape conservation, Colby College, ME - Keynote lecture
- 2013 Shattuck-St. Mary's School, MN - Life in the Treetops - Challenges of jungle exploration
- 2013 Women in Science and Engineering (WISE) 10th anniversary, North Carolina State University - Out on a Limb - Challenges of a woman in science
- 2013 TEDx at NC School of Science and Mathematics - How I climb trees to save forests

- 2013 Salon lecture - Life in the Treetops - Challenges of tropical forest conservation
- 2012 Rolex Awards ceremony, New Delhi India - Life as an Arbournaut - Mentoring young Indian leaders
- 2012 St. Mary's College in the Woods, Indiana - Life in the Treetops: Challenges of women in science
- 2012 Jimma University, Ethiopia - New Perspectives for the Future of STEM Education
- 2012 NCREN keynote lecture - STEM Education at the New Nature Research Center: Linking Virtual and Real Nature
- 2012 Numerous research talks in the Daily Planet multi-media theater, Nature Research Center
- 2012 Ecological Society of America, Diversity Lunch: Generation Z
- 2012 University of Texas, Pan American - Challenges of women and minorities in science
- 2012 National Science Foundation K-12 keynote speaker, annual meeting, Washington DC - Out on a Limb - Linking Real and Virtual Nature for Generation Z
- 2012 SCOPE, NC State University, Raleigh - Annual keynote speaker
- 2012 Chapel Hill Audubon Society - Life in the Treetops - The birds and the bees of the canopy
- 2012 Science Café, Raleigh NC - I Speak for the Trees...
- 2012 Institute for Emerging Issues, annual meeting - Back to our Roots - Eating Healthy and Getting Children Outdoors
- 2012 Appalachian State University, Boone NC - Commencement speaker
- 2011 Princeton Alumni Association - STEM Education in America, from K through Gray
- 2011 Southeast Climate Science Center Workshop - Presentation, Climate Change Education - The NRC as a tool for researchers' broader impacts
- 2011 ScienceOnline Conference, Durham NC - Life in the Treetops - Challenges of scientists communicating to the public - Keynote lecture
- 2011 Martin Luther King Day presentation, Bethlehem Church, Durham NC - Saving the forests of Ethiopia, one church at a time
- 2011 Science Café, Tir Na Nog restaurant, Raleigh NC - Rain Forests - Going, going gone?
- 2011 Ashoka Trust for Research on Ecology and the Environment (ATREE), Bangalore India- UN International Year of the Forest - Inspiring New Stakeholders for Forest Conservation
- 2011 Earthwatch HSBC Bank field expedition, Bannerghatta National Park - A blueprint for a clean-energy future - Climate change, economics, and conservation
- 2011 Fulbright senior specialist scholar lecture series, India - Thiruvananthapuram, Kerala state, Department of Forestry headquarters, UN Year of the Forest - Inspiring New Stakeholders for Forest Conservation
- 2011 Fulbright Foundation Day, CPR Environmental Center, Forestry Department, Chennai India - Life in the Treetops - Forest Canopies Promote Conservation, Economics, and Education
- 2011 Fulbright forest lecture series, Guwahati, state of Assam India, Cotton College - United Nations International Year of the Forest: Inspiring New Stakeholders to Reverse Deforestation
- 2011 Lecture at Nimal Prava Bordoloi Girls Hostel, Handique Girls College, Latasil, Guwahati, Assam India - It's a Jungle Up There - Challenges of Women in Field Biology
- 2011 NCSU Department of Biology, Plant-Insect Interactions in Tropical Rain Forest Canopies
- 2011 NCSU Entomology Department, Plant-Insect Relationships in Forest Canopies - the Herbivory Perspective
- 2011 Nature Research Center - STEM Education in the 21st Century - Presentation for Deans of Extension, Engagement, and Economic Development, NCSU

- 2011 NCSU Veterinary School, annual lunch - Life in the Treetops - Challenges of Women in Field Biology
- 2011 Beta-diversity of human skin bacteria studied with the citizen science approach - Ecological Society of America's annual meeting
- 2010 Wiley Elementary School Science Night - How Many Species Exist on Planet Earth? K-5 science night
- 2010 Earthwatch Institute, Costa Rica - Rainforests 101 and Copenhagen Update
- 2010 Women in Science Forum, Ferrum College - Keynote speaker
- 2010 What will ecology education look like in 2020? - Chair and keynote at Ecological Society of America's annual meeting
- 2010 A blueprint for Florida's clean energy future - How canopy ecology and students contributed to shaping state climate change policy - Ecological Society of America's annual meeting
- 2010 Can scientists inspire local actions for environmental justice? Role and challenges of ESA's education outreach and diversity initiatives - Ecological Society of America's annual meeting
- 2010 Tropical conservation and education outreach, as influenced by Connell's legacy - Ecological Society of America's annual meeting

- 2010 An exploration of modeling the spread of the Burmese python, *Python mourois* - Ecological Society of America's annual meeting
- 2010 Virtual versus real ecology education - Ecological Society of America
- 2010 Education and Diversity - Vice President's Report, Ecological Society of America
- 2010 The View from Down-Under - Advances in ecology and education outreach through the legacy of Joe Connell - Invited paper at Ecological Society of America
- 2010 Diversity Lunch, Chair and Moderator - Ecological Society of America
- 2010 SOS: Student Outreach in Science - Engaging undergraduates to mentor high school students - Invited paper at Ecological Society of America
- 2010 Conservation of the church forests of Ethiopia - Updates on field research for expedition team, Bahir Dar Forestry department, Ethiopia
- 2010 Bugfest lecture series: 1. Stalking bugs by hot air balloon
2. Bugs R Us - Research on insects in forest canopies
- 2010 Museum Advisory Board, Life in the Treetops - Flying high with the NRC
- 2010 Public phase committee, Life in the Treetops - Meet the new NRC director
- 2010 Friends of Museum Board meeting - It's a Jungle Up There - Challenges in science education
- 2010 Millions of beetles - Biodiversity and climate change at a crossroads? - Church talk in Chapel Hill NC
- 2010 Opening welcome talk, Sustainable Education Summit; invited talk on Virtual Versus Real Environmental Education (with Rob Stevenson, U. Mass)
- 2010 Summary and next steps for STEM education, Sustainable Education Summit
- 2010 It's a Jungle Up There - Challenges of women in science, Career Series, NCSU postdocs and graduate student career forum
- 2010 Rolex organized session, Geneva Switzerland - It's a Jungle Up There - Mentoring session for students from emerging countries
- 2010 Brimley Ball, keynote talk for fundraiser, Museum
- 2010 Lecture on The World, Tropical Rain Forests 101 - Exploration and research of global forests

- 2010 Lecture on The World, It's a Jungle Up There - Challenges of tropical forest conservation
 2010 Out on a Limb - Canopy research as a tool for advancing conservation, lecture to NESCENT at Duke University, and mentoring lunch with graduate students
 2010 Plant-Insect Interactions in Forest Canopies, seminar for Natural Resources Department NCSU

2005 - 2009

- Connery Conservation Lecture, Tulane University, New Orleans LA - Invited keynote
 John Moran Distinguished Lecturer Series, Senior Academy, Sarasota FL - Invited
 Convocation lecture for Earth Day, Carleton College, MN - Invited keynote
 Environmental Panel for Earth Week, Princeton University, NJ - Invited
 Keep Sarasota Beautiful, FL - Invited keynote
 Fourth International Canopy Conference, Germany - Invited
 Seeing the Big Picture Symposium, Economic Development Corporation - Invited
 Science Festival, Flagstaff Arizona 2005 - Invited keynote
 Rutgers University, Ecology and Evolution seminar series - Invited
 Explorers Club, Naples chapter - Invited
 University of Nebraska, Earth Day 2006 - Invited
 Jewish Women's Association donors' conference - Invited
 Northern Trust Bank Golden Anchor clients - Invited keynote
 Florida House Earth Day - Invited
 Ecological Society of America, Memphis TN
 Southern Utah University - Invited keynote
 Presidential Dinner, The Explorers Club - Invited keynote
 Lowell Thomas annual dinner, The Explorers Club 2006 - Invited honoree
 SACNAS (Society of Chicanos and Native American Scientists), Tampa FL - Invited
 Westover Academy, CT - Invited keynote
 International Sustainable Construction Conference 2006 - Invited keynote
 Frequent natural history lectures for community walks and local civic groups
 Harvard-Yale-Princeton Club luncheon - Invited
 SEEDS (Sustainable Ecology Education for Diverse Students) at Jasper Ridge Biological Field Station, CA - Invited
 Rachel Carson's birthday anniversary 2007, Chatham College, PA - Invited
 ATBC Asian Chapter Inaugural Meeting, India - Invited keynote
 Woods Hole Oceanographic Institution Gender & Equity Invited Speaker 2007 - Invited
 Kutztown State University, PA "Take your daughter to work day" - Invited keynote
 Villanova University, PA, Mendel Medal recipient 2007 - Invited lecture
 Burgundy Country Day School, VA, Sevaeride Forum on Environmental Education - Invited keynote
 Florida Cabinet, "Climate Change Summit" 2007 - Invited keynote panel
 Association for Tropical Biology and Conservation, Morelia MX 2007
 Ecological Society of America, San Jose CA 2007
 Elizabethtown College, PA - Invited keynote
 Concord College, WV - Invited keynote
 The Explorers Club, South Florida Chapter - Invited keynote
 Utah Environmental Education Society, Moab UT - Invited keynote
 MIT/Cornell Alumni - Keynote
 Republican Club of Sarasota County - Invited keynote
 American Association of University Women - Invited

Thiel College, Earth Week consortium 2008 - Invited keynote
 PASI-NSF sponsored Tropical Ecology Collaboratory, Lima PE
 Pine View High School - 2008 Earth Day assembly for grades 2-12
 Florida Secretary's Association annual meeting, University of Florida 2008
 University of Washington - Urban Horticulture, School of Forestry
 Ecological Society of America (ESA) 2009 - Contributions of canopy research to public education and understanding of ecosystem services
 ESA 2008 - Session co-chair "No Child Left Indoors": An Action Plan for Future Involvement by ESA Members
 ESA 2008 - It's a jungle up there: Juggling academic life with book authorship
 ESA 2008 - Science outreach for students: Connecting outreach and ecology
 ESA 2008 - Using undergraduates to create an energy audit for local green business
 ESA 2008 - Applications of treecodes to modeling herbivory in forest canopies
 ESA/SER 2007 - It's a jungle up there: Writing for technical versus public audiences
 ESA/SER 2007 - It's a jungle up there: Integrating canopy research with education outreach for kids
 ESA/SER 2007 - Modeling herbivory in forest canopies
 ESA/SER 2007 - Out on a limb - Forest canopies
 ESA/SER 2007 - The role of frugivorous birds and giant fruit bats as agents for reforestation in south India
 ESA/SER 2007 - Science outreach for students: Initiatives to connect local schools to ecology
 University of Wyoming, convocation address - Invited keynote
 Anniversary of Women's Right to Vote, FL - Invited keynote
 Millersville University, PA - Invited keynote
 Australian Ecological Society, Sydney 2008 - Plenary address
 Senior Friendship Center lecture series
 Baker University, KS 2009 - Invited lecture
 Gustavus Adolphus College - Linnaeus Symposium - Keynote speaker
 University of California, Santa Barbara - Biology Department 2009
 Ecological Society of America - Session chair: What will ecology education look like in 2020?
 Tiger Bay policy forum, Sarasota FL - Clean energy panel
 NSF Division of Undergraduate Education - Invited speaker
 University of Miami - Seminar speaker
 Various church, civic, and citizen groups in Sarasota and throughout Florida

2000 - 2004

Convocation, SUNY Binghamton, New York - Invited keynote
 Singapore Botanical Gardens, Singapore - Invited
 World Orchid Conference, Malaysia - Invited speaker
 World Bromeliad Conference, Florida - Invited speaker
 Women and Science Symposium, University of Wisconsin - Invited keynote
 Delta Kappa Gamma, International Conference, Canada - Invited keynote
 Missouri Botanical Gardens, John Dwyer Lecture, Missouri - Invited keynote
 North Carolina State University, NC - Invited keynote
 Ecological Society of America, diversity luncheon panel, annual meeting, Arizona 2002 - Invited
 Association for Tropical Biology and Conservation, Panama
 Woodrow Wilson School of Public Policy, Princeton University - Invited
 Bowling Green State College, OH - Invited keynote
 University of Michigan - Invited keynote

Eckerd College, FL - Invited
Harvard University Club, FL - Invited
Florida Science Teachers Association, Jacksonville FL - Invited keynote
Cincinnati Zoo Conservation Lecture Series, OH - Invited keynote
Sarasota Institute of Lifetime Learning, FL - Invited
Eckerd College Community Lecture Series, FL - Invited
Ecological Society of America, Portland OR
The Global Canopy Debate, Eden Project, UK - Invited keynote
SE Regional Garden Club of America, Sarasota FL - Invited keynote
North Carolina State University Conservation Series, Raleigh NC - Invited
Numerous talks at Rotary, Sertoma, church, school and civic groups, FL

1996 - 2000

Alumni Speaker, Williams College, MA - Invited
Brazilian Congress of Botany, Brazil - Invited keynote
Botanical Gardens of Rio de Janeiro, Brazil - Invited
ATB invited speaker session: Thinking globally and working globally: Ecological insights from inter-regional comparative studies, Providence RI
National Botanical Gardens, Bogor Indonesia - Invited
Instituto de Ecologia Invited Visiting Scientist Program, Xalapa, Mexico
Vision Dinner, Marie Selby Botanical Gardens - Invited keynote
Global Studies 1998 Conference, University of Minnesota - Keynote speaker
Chair, 2nd International Forest Canopies 1998: Global Perspectives, Sarasota FL
Tropical Rain Forest Canopies Conference, Oxford University - Invited keynote
Jason X speaker, BOCES, Long Island - Invited keynote
Gifford Arboretum Distinguished Lecture, Miami FL 1999 - Invited
Garden Club of America Awardee Dinner, New Jersey 1999 - Invited keynote
International Rotary Governors Convention, Sarasota FL - Invited

1990 - 1995

The Madeira School, VA - Invited keynote
Botany Department, University of Hawaii, Manoa
Museum of Comparative Zoology, Harvard University, MA - Invited
Biology Department, Carleton College, MN - Invited
Earthwatch, Center for Field Studies - Annual Conference, Boston
International Epiphyte Conference, Selby Gardens, FL - Invited
Pacific Science Congress, HI - Invited
Audubon Naturalists/Smithsonian Institution, Washington DC - Invited keynote
Faculty Club, Williams College, MA - Invited
National Geographic Young Explorer, Washington, DC 1994 - Invited keynote
Chair, Canopy Symposium, AIBS, Honolulu HI
World Wildlife Fund, Washington DC - Invited
Selby Gardens, Board of Trustees, FL
Chair, 1st International Forest Canopy Conference, Sarasota FL
Geneva Sayre Invited Lecture, Russell Sage Colleges, NY 1995 - Invited keynote
Tropical Rain Forest Destruction Conference, Cambridge University, UK - Invited
British Entomological Society, London, UK - Invited
Professor Lampton Invited Annual Lecture, West Georgia College, GA

1980 - 1989

Royal Botanic Gardens, Sydney NSW Australia - Invited
CSIRO Division of Plant Industry, Canberra Australia - Invited
Herbivory Conference, Kosciuszko National Park, VIC Australia - Invited
Australian Entomological Society Annual Conference, Australia
CSIRO, Entomology Division, Canberra Australia - Invited
Biology Department, University of California, Santa Barbara CA
Lamington National Park, QLD Australia
Center for Field Studies (Earthwatch), MA - Invited
CSIRO Rain Forest Research Unit, Atherton, QLD Australia
Entomology Department, Pennsylvania State University, PA - Invited
Organization for Tropical Studies (OTS) 25th Silver Jubilee Symposium (Miami FL) and
workshop at La Selva, Costa Rica - Invited
Soil Conservation Annual "Trees on Farms" Conference, University of New England, NSW
Australia - Invited

Margaret D. Lowman, Ph.D. www.canopymeg.com

Chief of Science & Sustainability, California Academy of Sciences (www.calacademy.org)

Nicknamed the “real-life Lorax” by National Geographic and “Einstein of the treetops” by Wall Street Journal, Meg Lowman pioneered the science of canopy ecology. For over 30 years, she has designed hot-air balloons and walkways for treetop exploration to solve mysteries in the world’s forests, especially insect pests and ecosystem health. Meg is affectionately called the mother of canopy research as one of the first scientists to explore this eighth continent. She relentlessly works to map the canopy for biodiversity and to champion forest conservation around the world. Her international network and passion for science have led her into leadership roles where she seeks best practices to solve environmental challenges and serves as a role model to women and minorities in science.

Formerly a Professor at North Carolina State University and the founding director of North Carolina's innovative Nature Research Center (NRC) at the Museum of Natural Sciences, Meg oversaw the creation, construction, staffing, and programming of this research wing in partnership with NCSU. She was subsequently hired by the California Academy of Sciences to lead their twenty-first century strategy that integrates research with sustainability initiatives both local and global. As the external voice for the Academy's collections and research, she promotes its mission to groups ranging from elementary classes to corporate executives to international conferences. Lowman's academic leadership has included Vice President of the Ecological Society of America; Treasurer of the Association for Tropical Biology and Conservation; founder of the TREE Foundation; Board of Directors for The Explorers Club and Earthwatch; and Climate Change Adviser to Alex Sink, former CFO of the Florida cabinet. Previously, she served as Director of Environmental Initiatives at New College of Florida, CEO of The Marie Selby Botanical Gardens, and Professor of Biology & Environmental Studies at Williams College.

Lowman's academic training includes Williams College (BA, Biology); Aberdeen University (MSc, Ecology); Sydney University (PhD, Botany); and Tuck School of Business (Executive Management). Her numerous awards include the Margaret Douglas Medal for Excellence in Conservation Education from the Garden Club of America, Girls Inc. Visionary Award, the Mendel Medal for achievements in science and spirit, the Lowell Thomas Medal for canopy exploration, Kilby Laureate and Aldo Leopold Leadership Fellow. She has authored more than 125 peer-reviewed scientific publications, and her first book, “Life in the Treetops,” received a cover review in the New York Times Sunday Book Review. Working tirelessly on sustainability initiatives at home and abroad, “CanopyMeg” was a Fulbright Senior Specialist Scholar to both India and Ethiopia, and National Geographic funds her conservation work on Ethiopian church forests. She is the proud mother of sons Edward and James, both science majors from Princeton University.

San Francisco
BOARD OF SUPERVISORS

Date Printed: August 28, 2015

Date Established: February 16, 2001

Active

URBAN FORESTRY COUNCIL

Contact and Address:

Mei Ling Hui Commission Secretary
Department of the Environment
1455 Market Street, Suite 1200
San Francisco, CA 94103

Phone: (415) 355-3700

Fax:

Email: meiling.hui@sfgov.org

Authority:

Environment Code, Chapter 12 (Ordinance Nos. 171-03; 210-08; and 239-14), and Public Works Code, Section 803 (Ordinance No. 165-95; and 17-06)

Board Qualifications:

The Urban Forestry Council protects the community interest and ensures that San Francisco realizes the full range of tree benefits into the future. Council members will represent the full range of urban forest stakeholders, including City agencies, non-profit organizations, tree management organizations, and community members.

The Urban Forestry Council shall be comprised of fifteen (15) voting members, seven (7) of whom are appointed by the Board of Supervisors, as follows:

- > One (1) member from an educational organization involved with tree management (University of California Cooperative Extension, etc.);
- > Two (2) members certified by a professional tree management organization (International Society of Arboriculture, American Society of Consulting Arborists, or American Society of Landscape Architects);
- > Two (2) members of non-profit organizations involved in urban forestry or other environmentally-related issues; and
- > Two (2) members from the community.

The Mayor shall appoint two (2) voting members, as follows:

- > One (1) member from the tree care industry; and
- > One (1) member at large.

San Francisco
BOARD OF SUPERVISORS

The following Director or General Manager of each of the following departments, or his/her designee, shall each serve as a voting member:

- > Director of the Department of Public Works (1);
- > Director of the Planning Department (1); and
- > General Manager of the Recreation and Park Department (1).

The following bodies shall also appoint a voting member:

- > Public Utilities Commission (1);
- > Golden Gate National Recreation Area (GGNRA) (if GGNRA does not make an appointment within 60 days after the seat is vacant, the Presidio Trust may appoint a voting member to serve that term; if the Presidio Trust does not make an appointment within 30 days after it is authorized to do so, the Mayor shall appoint an at-large member to fill the seat) (1); and
- > Port of San Francisco (1).

Members shall serve for two-year terms and can serve successive terms if reappointed by the authority that originally appointed the member. The appointing authority that appoints Council members also may appoint at-large members to serve any unfilled Council positions.

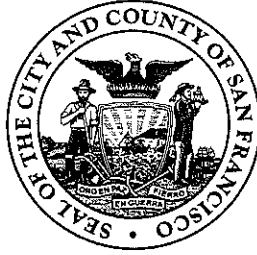
The Council shall meet at least six times per year and establish its own operating procedures, which at a minimum, shall meet the public notice, meeting, voting, agenda and other procedural requirements set forth in local law. Subcommittees shall be created to adequately address other special areas of concern on an as needed basis.

The Department of the Environment, with adequate funding to assist the Council in carrying out its mission, shall provide professional and administrative staff to the Council.

Reports: The Council shall report to the Board of Supervisors and Mayor by September 1st each year regarding the state of the urban forest. The report shall contain a review of the quality of urban forest stewardship and an assessment of how well public agencies and other urban forest managers are implementing the Urban Forest Plan.

Sunset Date: The Council shall continue to operate unless the Board of Supervisors terminates the code section or creates a successor to the Urban Forestry Council.

BOARD of SUPERVISORS



City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-5184
Fax No. 554-5163
TDD/TTY No. 554-5227

VACANCY NOTICE

URBAN FORESTRY COUNCIL

Replaces All Previous Notices

NOTICE IS HEREBY GIVEN of the following vacancies:

Vacant seat 1, succeeding J. Malcolm Hillan, term expiring on November 18, 2016, must represent an educational organization involved with tree management (University of California Cooperative Extension, etc.), for a two-year term ending November 18, 2018.

Vacant seat 2, succeeding Andrew Sullivan, term expiring on November 18, 2016, must be certified by a professional tree management organization (International Society of Arboriculture, American Society of Consulting Arborists, or American Society of Landscape Architects), for a two-year term ending November 18, 2018.

Vacant seat 3, succeeding Dan Kida, term expiring on November 18, 2016, must be certified by a professional tree management organization (International Society of Arboriculture, American Society of Consulting Arborists, or American Society of Landscape Architects), for a two-year term ending November 18, 2018.

Vacant seat 4, succeeding Dan Flanagan, term expiring on November 18, 2016, must be a member of a non-profit organization involved in urban forestry or other environmentally-related issues, for a two-year term ending November 18, 2018.

Vacant seat 5, succeeding Sandy Sherwin, resigned, must be a member of a non-profit organization involved in urban forestry or other environmentally-related issues, for the unexpired portion of a two-year term ending November 18, 2016.

Vacant seat 6, succeeding Michael Sullivan, term expiring on November 18, 2016, must be a representative of the community, for the unexpired portion of a two-year term ending November 18, 2018.

Vacant seat 7, succeeding Rose Hillson, term expiring on November 18, 2016, must be a representative of the community, for a two-year term ending November 18, 2018.

Report: The Council shall report to the Board of Supervisors and Mayor by September 1st each year regarding the state of the urban forest. The report shall contain a review of the quality of urban forest stewardship and an assessment of how well public agencies and other urban forest managers are implementing the Urban Forest Plan.

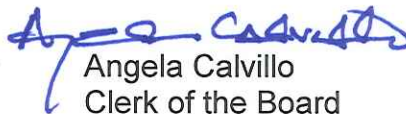
Sunset Date: The Council shall continue to operate unless the Board of Supervisors terminates the code section or creates a successor to the Urban Forestry Council.

Additional information relating to the Urban Forestry Council may be obtained by reviewing Environment Code, Chapter 12, or Public Works Code, Section 803 at <http://www.sfbos.org/sfmunicodes> or by visiting the Council's website at <http://commission.sfenvironment.org/urban-forestry-council>.

Interested persons may obtain an application from the Board of Supervisors website at http://www.sfbos.org/vacancy_application or from the Rules Committee Clerk, 1 Dr. Carlton B. Goodlett Place, Room 244, San Francisco, CA 94102-4689. Completed applications should be submitted to the Clerk of the Board. All applicants must be residents of San Francisco, unless otherwise stated.

Next Steps: Applicants who meet minimum qualifications will be contacted by the Rules Committee Clerk once the Rules Committee Chair determines the date of the hearing. Members of the Rules Committee will consider the appointment(s) at the meeting and applicant(s) may be asked to state their qualifications. The appointment of the individual(s) who is recommended by the Rules Committee will be forwarded to the Board of Supervisors for final approval.

Please Note: Depending upon the posting date, these vacancies may have already been filled. To determine if vacancies for this Council are still available, or if you require additional information, please call the Rules Committee Clerk at (415) 554-7702.


Angela Calvillo
Clerk of the Board

DATED/POSTED: April 28, 2016