File No. <u>160496</u>	Committee Item No. 2 Board Item No. 3
	OARD OF SUPERVISORS CKET CONTENTS LIST
Committee: Rules Committee	DateMay 12, 2016
Board of Supervisors Meeting	Date May 24, 2016
Legislative Analyst Youth Commission Introduction Form (Report for hearings) c Cover Letter and/or Report form t t Commission
,	Iditional space is needed)
X X Information Sheet	
Completed by: Derek Evans Completed by: Derek Evans	Date May 6, 2016 Date May 16, 2016

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

PREPARED IN COMMITTEE 5/12/16

FILE NO. 160496

MOTION NO.

Motion appointing Meg Lowman (residency requirement waived), term ending November 18, 2016, to the Urban Forestry Council.

[Appointment, Urban Forestry Council - Meg Lowman]

MOVED, That the Board of Supervisors of the City and County of San Francisco does hereby appoint the hereinafter designated person to serve as a member of the Urban Forestry Council, pursuant to the provisions of the San Francisco Environment Code, Section 1200 et seq., for the term specified:

Meg Lowman (residency requirement waived), 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.

FURTHER MOVED, That the Board of Supervisors makes the following findings:

- 1. The membership of the Urban Forestry Council has a goal to be representative of the diversity of the City and County of San Francisco.
- 2. Applicant Meg Lowman, who is not a resident of San Francisco, is a person with experience that uniquely qualifies them to serve on the Urban Forestry Council.
- 3. The Urban Forestry Council has attempted to fill the position, for which Meg Lowman was nominated, with an individual who is a City resident and who has the specific experience, skills, and qualifications, but has been unable to do so at this time. The Rules Committee has certified that Meg Lowman is qualified to serve on the Urban Forestry Council.
- 4. After exercising due diligence, the Board of Supervisors concludes that there is no other possible representative, who is a resident of San Francisco, and who has the specific

experience, skills, or qualifications possessed by this applicant, and who is willing to serve on the Urban Forestry Council at this time; and, be it

FURTHER MOVED, That the Board of Supervisors waives the residency requirement for Meg Lowman, as allowed in cases where no qualified City resident, willing to serve, can be found, pursuant to Charter, Section 4.101(a)(2), that requires person(s) appointed to boards, commissions, and advisory bodies established by legislative act of the Board of Supervisors to be resident(s) of the City and County of San Francisco.







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
SAN FRANCISCO

2015 JAN - 9 PM 1: 14

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
Name: Meg Lowman Home Address: Belevedere Tiburon CA Zip: 940240
Home Phone: Occupation: Educator
Home Phone: 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:
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: floida
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 Sustainablitly as the Lisdsay 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

01/09/2015	13:34)

Business and/or profes	ssional experience:		
Ran a non profit Tree F	oundation		
Led a Botanical Garden			
Worked in Canopy Wall	way Constrution for a	number of ve	ears
	,		
·			
Civic Activities:			
led Bio Blitz's all through	nout the Bay Area		
Lecture underserved yo			·
Picked as one of the mo	ost influential women b	y the San Fra	ancisco Buisness Times in 2014
			·
			·
Have you attended any meet	ngs of the Board/Commiss	ion to which yo	u wish appointment? Yes No
	appointment can be ma		before the RULES COMMITTEE is a ations must be received 10 days
	•		•
Date: 1/9/2015 A	applicant's Signature	(required)	Meg Lowman
<u> </u>	,pp	. (roquirou)	(Manually sign or type your complete name, NOTE: By typing your complete name, you are hereby consenting to use of electronic signature.)
	cation will be retained nents, become public r		Once Completed, this form, including
FOR OFFICE USE ONLY:	Town Funites	D	. Continuo Vanata de
Appointed to Seat #:	renn Expires;	Date	Seat was Vacated:
11/2/11/2			

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: mlowman@calacademy.org

Website: www.canopymeg.com

Work: (415) 379-5820 Twitter: #canopymeg

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

ENT
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
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
Science columnist, News & Observer, Charlotte Tribune, NC; Herald Tribune, FL
Director of Environmental Initiatives, and Professor of Biology and Environmental
Studies, New College of Florida and Sarasota County Regional Government Science
Outreach Partnership
Chief Executive Officer, Selby Botanical Gardens, FL
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)
Director of Research & Conservation and Jessie Cox Chair in Tropical Botany,
Selby Botanical Gardens, FL
Visiting Professor of Biology & Environmental Studies, Williams College, MA
Lecturer in Botany, University of New England, Australia
Co-manager, Ruby Hills Pastoral Company, Walcha NSW Australia
Postdoctoral Fellow, Zoology Department, University of New England
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
1974 - 1976	Williams College, Dean's List
1972 - 1970	Williams Conege, Dean's List
PROFESSIO	ONAL 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
2003	Kilby Laureate Medalist honoring work as a rainforest canopy expert
2002	Time, successed in reasonable thouse are a territorious controls, owhere

	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
	ADMINISTR	RATIVE and EDITORIAL ACTIVITIES
	2014	Editor, California Academy of Sciences Proceedings
	2014	Committee for 7 th 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), 6 th 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), 2 nd 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)
		2

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 1	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
- 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
- Co-founder, Canopy Construction Associates, a company that specializes construction 1992 - on of canopy walkways for research and education institutions worldwide; continued consultant on selection of canopy walkway sites from a biodiversity perspective

•	·
1992 - 1999	(www.canopyconstruction.com) 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 20 th 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 -
1000	Conservation Biology, Environmental Botany, and Plant Ecology
1992 - on	Numerous lectures for schools, civic clubs, and institutions (addressed over 5 million
1000	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
1070 1000	Ecology, Beginning and Advanced sections
1979 - 1982	Sydney University, Teaching Assistantships - Plant Physiology, Plant Ecology, Plant &
1075 1076	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
2012 2013	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
2012	treetops" by Wall Street Journal
2012	
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
2010	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
1993 - 2007 1994	Jason V Project, Chief Scientist - international K-12 science education program with
1フプサ	ason virioto, omer bolendst - international K-12 science education program with

1993 1991	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 Produced Reading Rainbow feature film about trees w/ Lavar Burton (Star Trek), a national series to educate K-9 about science and reading 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	
1979 - 1983	schools, and elementary classes each year Sydney University, Adult Education - proposed and designed two new biology courses,	
1977 1968 - 1976	and taught all lectures and labs Massachusetts Audubon Society, Merck Forest, Vermont 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 PRIZ	7FC	
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	
2012 0	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	
0010	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	
4014	Know What We Know (\$1,900,000, not successful)	
2012	Forest Service partnership for biodiversity lab (\$130,000); Dunn lab partnership for	
2012	Biodiversity Lab (\$90,000) and for Genomics Lab (~\$150,000)	
2011	Global town halls at NRC with Rolex Young Laureates, Rolex Corporation (\$25,000)	
~~	220-20 To The Transport To The Land Date of Corporation (#25,000)	

2011	Canopy Walkway for North Carolina Kids (submitted Z. Smith Reynolds Foundation
2011	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)
•	Sarasota County - Invasive species ecology and ecology education (\$50,000)
2008	
2008	National Institute of Health (with PI Michael Kozhevnikov) - Integration of virtual
	reality-based 3-D simulations with outdoor activities in environmental science curriculum
2000	(\$99,999 submitted)
2008	National Science Foundation - Ecosystem services at the forest/village interface in
2007	Thailand - ecological processes and economic valuation (\$570,470, not funded)
2007	Economic Development Corporation, website development for regional government
2005	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
2007 2007	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
1000 1001	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.

Lowman MD, S Devy, and T Ganesh (eds.). 2013. Treetops at Risk. Springer, 444 pp.

Lowman MD, T Schowalter, and J Franklin. 2012. Methods in Forest Canopy Research. University of California Press.

Lowman MD, E Burgess, and J Burgess. 2006. It's A Jungle Up There - More Tales from the Treetops. Yale University Press, 291 pp. (Paperback, 2008; reprinted in Korean, 2009.)

Lowman MD and HB Rinker (eds.). 2004. Forest Canopies. Elsevier Academic Press.

Lowman MD. 1999. Life in the Treetops: Adventures of a Woman in Field Biology. Yale University Press. (Editions in German, Chinese and Korean; paperback in 2002.)

Lowman MD and NM Nadkarni (eds.). 1995. Forest Canopies. Academic Press, 624 pp. (Second edition in paperback, 1996.)

Lowman MD (ed.). 1992. Ecology of Hopkins Forest. Williams College Printers, 100 pp.

Heatwole H and MD Lowman. 1986. Dieback: Death of an Australian Landscape. Reed & Co, 150 pp.

National Leadership Reports:

Lowman MD. 2012. Health and environment - kids and treehouses. Women and the Environment White House Summit.

NEON Tiger Team. 2008. Education Plan. http://neoninc.org/documents/EdTigerTeamReport 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.

Lowman MD. 1974. Some Aspects of the Fabric of Life. US Department of Health, Education, and Welfare, 204 pp.

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 f the canopy: <u>Doryphoribius elleneddiei</u> nov. sp. (Eutardigrada, Parachela, Hypsibiidae), a new species from eastern Kansas. Transactions Kansas Academy of Sciences 117: 299-304.

Lowman MD. 2014. Ecoliteracy in informal science education settings. Frontiers in Ecology and the Environment 12: 474-5.

Lowman MD. 2014. Put the Muse Back in Museums - Science museums should recruit the public in confronting the planet's toughest challenges. Scientific American Forum.

Cardelús CL, P Scull, J Hair, M Baimas-George, **MD Lowman**, and A Wassie Eshete. 2013. A preliminary assessment of Ethiopian sacred grove status at the landscape and ecosystem scales. Diversity 5(2): 320-334.

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.

Lewis OT, RM Ewers, **MD Lowman**, and Y Malhi. 2013. Conservation of tropical forests: maintaining ecological integrity and resilience. IN: Key Topics in Conservation Biology 2. DW Macdonald & KJ Willis (eds.). John Wiley & Sons: 222-235.

Lowman MD. 2013*. Exploring the rain forest canopy by balloon. IN: The Modern Explorers. R Hanbury-Tenison & R Twigger, eds.). Thames and Hudson.

Lowman MD. 2013. Earth system environmental literacy. IN: Earth System Monitoring. J Orcutt (ed.). Springer: 107-121.

Lowman MD, T Ganesh, and S Devy. 2013. The role of scientific conferences to foster conservation solutions for global forests. IN: Treetops at Risk. Springer: 3-7.

Spiers, AI, BJ Haefke, WR Miller, & MD Lowman. 2013. Tardigrades in the canopy: *Doryphoribius dawkinsi* Michalczyk and Kaczmarck 2010 – new records from eastern Kansas, USA. Transactions of the Kansas Academy of Science 116(3/4): 125-128.

Miller W, M Lowman, and E McCord. 2013. In the canopy with wheelchairs: a model for teaching field biology. IN: Treetops at Risk. Springer: 331-339.

Reynolds J and M Lowman. 2013. Promoting ecoliteracy through research service-learning and citizen science. Frontiers in Ecology and the Environment 11(10): 565-566.

Seidler R, KS Bawa, M Lowman, and N Nadkarni. 2013. Forest canopies as Earth's support systems: priorities for research and conservation. IN: Treetops at Risk. Springer: 55-70.

Voirin B, R Kays, M Wikelski, and M Lowman. 2013. Why do sloths poop on the ground? IN: Treetops at Risk. Springer: 195-199.

Beck C, K Klemow, J Paulson, A Bernstein, M Lam, G Middendorf, J Reynolds, K Belanger, C Cardelús, C Cid, S Doshi, N Gerardo, L Jablonski, H Kimmel, M Lowman, A MacRae-Crerar, B Pohlad, J De Roode, and C Thomas. 2012. Add ecology to the pre-medical curriculum. Science 335: 1301.

Cardelús C, MD Lowman, and A Wassie. 2012. Uniting church and science for conservation. Science 335: 915-917.

Caughlin TT, T Ganesh, and MD Lowman. 2012. Sacred fig trees promote frugivore visitation and tree seedling abundance in South India. Current Science 102: 918-922.

Chandler M, D Bebber, S Castro, **MD Lowman**, P Muoria, N Oguge, and D Rubenstein. 2012. International citizen science: making the local global. Frontiers in Ecology and the Environment 10(6): 328-331.

Ermilov Sergey G, Neville N Winchester, **Margaret D Lowman**, and Alemayehu Wassie. 2012. Two new species of oribatid mites (Acari: Oribatida) from Ethiopia, including a key to species of Pilobatella. Systematic & Applied Acarology 17(3): 301-317.

Hulcr J, A Latimer, J Henley, N Rountree, N Fierer, A Lucky, M Lowman, and R Dunn. 2012. A jungle in there: bacteria in belly buttons are highly diverse, but predictable. PLOS ONE 7(11): e47712, pp. 1-6.

Kaganovskiy L and MD Lowman. 2012. Mathematical modeling of forest canopies for herbivory. IN: Methods in Forest Canopy Research. M Lowman, T Schowalter & J Franklin (eds.). University of California Press: 97-98.

Lowman MD. 2012. Beetles in a salad bar: accurate assessment of herbivory in whole forests. IN: Methods in Forest Canopy Research. M Lowman, T Schowalter & J Franklin (eds.). University of California Press: 93-97.

Lowman MD. 2012. North Carolina leverages funding for science education. Science 335: 1201.

Lowman MD. 2012. Science Statemanship. Science Magazine 336: 157.

Lowman MD and TD Schowalter. 2012. Plant science in forest canopies - the first 30 years of advances and challenges (1980-2010). New Phytologist 194(1): 12-27.

Miller W and MD Lowman. 2012. The collection of tardigrades from the canopy. IN: Methods in Forest Canopy Research. M Lowman, T Schowalter & J Franklin (eds.). University of California Press: 70-73.

Lowman MD. 2011. Out on a limb - research in Australia's forest canopies. Ecological Society of Australia 50th Anniversary Cameo Series. E-news.

Lowman MD. 2011. Out on a limb: true confessions of a bug detective. IN: Chemical Biology of the Tropics. Elsevier Publishers: 87-96.

Lowman MD. 2011. Sustainability education: challenges of integrating virtual versus real nature in science education. Encyclopedia of Sustainability Science and Technology. RA Meyers (ed.). Springer Verlag.

Nadkarni N, G Parker, and M Lowman. 2011. Forest canopy studies as an emerging field of science. Annals of Forest Science 68: 217-224.

Stevenson R and **MD Lowman**. 2011. Ecology education in 2020: integrating new technologies with Mother Nature. ESA Bulletin e-journal.

Lowman MD. 2010*. CSI in Ethiopia: Children Survey Insects. North Carolina Naturalist 18(2): 8-9.

Lowman MD. 2010. Finding sanctuary - saving the biodiversity of Ethiopia one church forest at a time. The Explorers Journal 88: 26-31.

Lowman MD. 2010. Tall Tree Canopies. IN: The Fragile Forest: Inside Brazilian Amazonia. DK Bhaskar. International Fine Art Gallery, Augusta GA.

Lowman MD and T Mourad. 2010. Bridging the divide between virtual and real nature. Frontiers in Ecology and the Environment 8(7): 339.

Heatwole H, S Unsicker, LP Andriamiarisoa, and MD Lowman. 2009. Vicissitudes of leaves in a tropical rain forest in Madagascar. J. Tropical Ecology 25(6): 615-624.

Lowman MD. 2009. Biodiversity in tropical forest canopies as a "hook" for science education outreach and conservation. Journal of Tropical Ecology 50: 125-136.

Lowman MD. 2009. A blueprint for Florida's clean-energy future - case study of a regional government's environmental strategy. Oxford University. Sustainability 1(2): 97-103.

Lowman MD. 2009. Canopy research in the twenty-first century: a review of arboreal ecology. Tropical Ecology 50(1): 125-136.

Lowman MD. 2009. Canopy walkways for conservation - a tropical biologist's panacea or fuzzy metrics to justify ecotourism? Biotropica 41(5): 545-548.

Lowman MD. 2009. Forests in the Upper Heights. IN: Forests. America Natural, Mexico.

Lowman MD and DC Randle. 2009. Ecological mentoring: inspiring future scientists. Frontiers in Ecology and the Environment 7: 119.

Lowman MD, C D'Avanzo, and C Brewer. 2009. NEON - a national ecological network for research and education. Science 323(5918): 1172-1173.

Voirin B, R Kayes, **MD Lowman**, and M Wikelski. 2009. Evidence for three-toed sloth (*Bradypus variegatus*) predation by spectacled owl (*Pulsatrix perspicillata*). Edentata 8: 15-20.

Lowman MD. 2008*. The "Wow" Factor - the science behind a safe home. Scene Magazine June/July 61.

Lowman MD. 2007*. Exploring climate change - charting a new course for planet Earth. The Explorers Journal Fall 2007: 20-22.

Lowman MD. 2007. Out on a limb: exploration of forest canopies. IN: They Lived to Tell the Tale: True Stories of Modern Adventure from the Legendary Explorers Club. The Lyons Press: 331-339.

Djieto-Lordon C, AB Nkongmeneck, **MD Lowman**, and A Dejean. 2006. Platycerium stemaria (Polypodiaceae): An African epiphytic myrmecophyte. Selbyana 27: 79-82.

Ernest KA, MD Lowman, HB Rinker, and DC Shaw. 2006. Development of a novel method for assessing stand-level herbivory in forests. Newsletter of the International Canopy Network 12 (2): 4-5.

Ernest KA, MD Lowman, HB Rinker, and DC Shaw. 2006. Stand-level herbivory in an old-growth conifer forest canopy. Western North American Naturalist 66(4): 473-481.

Lowman MD. 2006. Fostering partnerships between regional government and ecology. Frontiers in Ecology and the Environment 4(10): 547-548.

Lowman MD. 2006. No child left indoors. Frontiers in Ecology and the Environment 4(9): 451.

Lowman MD. 2006*. Out on a limb. The Explorers Club Journal Winter 2005-2006: 24-30.

Lowman MD. 2006. Turning point - Reading the leaves. New Scientist 191(2566): 49. Lowman MD, E Burgess, and J Burgess. 2006. Growing up in the treetops. Natural History 115(2): 80.

Lowman M. 2005. Out on a limb: explorations of the world's treetops. Explorers Journal 83(4): 24-29.

Frank JH, PJ Benshoff, MA Deyrup, GB Edwards, SE Halbert, AB Jamon, **MD Lowman**, EL Mockford, RH Scheffrahn, S Sreenivasan, GJ Steck, MC Thomas, TJ Walker, and WC Welbourn. 2004. Invertebrate animals extracted from native Tillandsia (Bromeliales: Bromaliaceae) in Sarasota County, Florida. Florida Entomologist 87(2): 176-185.

Lowman MD. 2004. Canopy conservation initiatives. Plant Talk 36: 45.

Lowman MD. 2004. Ecotourism and its impact on forest conservation. http://www.actionbioscience.org/environment/lowman.html

Lowman MD. 2004. Ecotourism and the treetops. IN: Forest Canopies. Elsevier Press, San Diego CA: 475-485.

Lowman MD. 2004. Tarzan or Jane? A short history of canopy biology. IN: Forest Canopies. Elsevier Press, San Diego CA: 453-465.

Lowman MD and HB Rinker. 2004. Insect herbivory in tropical forests. IN: Forest Canopies. Elsevier Press, San Diego CA: 359-386.

Burgess E, J Burgess, MD Lowman, and thousands of Jason X school students. 2003. Observations of a beetle herbivore on a bromeliad in Peru. Journal of the Bromeliad Society 53(5): 221-224.

Burgess EA, JB Burgess, MD Lowman, and DC Randle. 2002. Water pollution in bromeliad tanks - an experimental approach. Journal of the Bromeliad Society 52(2): 58-62.

Lowman MD. 2002. Access into forest canopies - new ways to study orchids and other canopy organisms? Proceedings of the 17th World Orchid Conference, Shah Alam Malaysia, 24 April -1 May 2002.

Lowman MD, M Hunter, HB Rinker, T Schowalter, and S Conte. 2002. Canopy walkways - highways in the sky. The Global Canopy Handbook. Andrew W Mitchell, Katherine Secoy & Tobias Jackson (eds.). Techniques of Access and Study in the Forest Roof: 35-40.

Nkongmeneck BA, MD Lowman, and JT Atwood. 2002. Epiphyte diversity in primary and fragmented forests of Cameroon, Central Africa: a preliminary survey. Selbyana 23(1): 121-130.

Hunter MD, MD Lowman, HB Rinker, TD Schowalter, SJ Fonte. 2001. Canopy herbivory and soil ecology - the top-down impact of forest processes. Selbyana 22(2): 225-231.

Hunter MD, MD Lowman, HB Rinker, TD Schowalter, and SJ Fonte. 2001. Canopy herbivory and soil processes in temperate and tropical forests. Tropical Ecosystems. KN Gaenshaiah, R Uma Shaanker & KS Bawa (eds.): 433.

Lowman MD. 2001. Curator of a botanical garden. Plant Sciences 2: 35-36.

Lowman MD. 2001. Epiphytes. Plant Sciences 2: 113-115.

Lowman MD. 2001. Plants in the forest canopy: some reflections on current research and future direction. IN: Tropical Forest Canopies: Ecology and Management. KE Linsenmair, AJ Davis, B Fiala & MR Speight (eds.). Forestry Sciences (69): 39-50.

Lowman MD. 2001. Plants in the forest canopy: some reflections on current research and future direction. Plant Ecology 153: 39-50.

Holst BK and MD Lowman (eds.). 2000. Forest Canopies 1998: Global perspectives. Proceedings of the Second International Canopy Conference, Part IV, Sarasota Florida, USA, 4-8 November 1998. Selbyana 21(1/2): 7-117.

Lowman MD. 2000*. Heat futures in Australia's rain forests. Earthwatch Institute: 25-37.

Adams J, MM Grushka, G Lin, MD Lowman, and BDV Marino. 1999. The Biosphere 2 canopy access system. Ecological Engineering 13: 313-320.

Adams J, MM Grushka, G Lin, MD Lowman, and BDV Marino. 1999. The Biosphere 2 canopy access system. IN: Biosphere 2: Research Past and present. BDV Marino & HT Odum (eds.). Elsevier.

Brown M, A Desrosiers, MD Lowman, and DC Randle. 1999. Temporal variation in herbivory of a Peruvian bromeliad. Journal of the Bromeliad Society 49: 81-83.

Downey L, A Farres, MD Lowman, and E Mermin. 1999. Abundance and mortality of two epiphytic Tillandsias (Bromeliaceae) in a Florida hammock. Journal of the Bromeliad Society 49: 25-28.

Heatwole H, MD Lowman, and KL Abbott. 1999. Grazing on Australian eucalypt leaves by insects. Selbyana 20: 299-323.

Lowman MD. 1999. Forest Canopies 1998: Global Perspectives - a new beginning for the new millennium. Selbyana 20(1): 61-65.

Schowalter TD and MD Lowman. 1999. Forest herbivory: insects. Ecosystems of the World: 253-270.

Burgess E, J Burgess, and MD Lowman. 1998. How quickly do bromeliads decay? Journal of the Bromeliad Society 48(4): 177-182.

Foster R, MD Lowman, HB Rinker, and P Wittman. 1998. Herbivory and insect loads on epiphytes, vines and host trees in the rain forest canopy of French Guiana. Biologie D'Une Canopée de Forêt Équatoriale. F Hallé (ed.). Pro-Natura International, France: 116-128.

Lowman MD. 1998*. Artificial bromeliad tank experiments. A Wet and Wild Adventure; Curriculum for Jason X (collated by National Science Teachers Association): 189-191.

Lowman MD. 1998. Canopy research of tropical forests. Mountain, Plain and Garden: The Magazine of Denver Botanic Gardens 55(2): 18-23.

Lowman MD. 1998*. Canopy walkways. A Wet and Wild Adventure; Curriculum for Jason X (collated by National Science Teachers Association): 186-189.

Lowman MD. 1998. Forest canopies 1998: global perspectives. Selbyana 18(2): 1-3.

Lowman MD. 1998*. Leaf toughness and the use of a penetrometer. A Wet and Wild Adventure; Curriculum for Jason X (collated by National Science Teachers Association): 144-156.

Lowman MD and PA Morrow. 1998. Insects and their environment: plants. The Science of Entomology. 4th edition. WS Romoser and JG Stoffolano, Jr. (eds.). Wm C. Brown Publishers, Dubuque Iowa: 290-316.

Lowman MD, E Preisser, and D Smith. 1998. Canopy and ground level insect distribution in a temperate forest. Selbyana 19(2): 141-146.

Schowalter T and MD Lowman. 1998. Forest herbivory: insects. Ecosystems of Disturbed Ground. Lawrence Walker (ed.). Elsevier Press.

Connell JH, MD Lowman, and IR Noble. 1997. Subcanopy gaps in temperate and tropical forests. Australian Journal of Ecology 22: 163-168.

Donovan C, H Heatwole, MD Lowman, and M McCoy. 1997. Phenology of leaf-flushing and macroarthropod abundances in canopies of Eucalyptus saplings. Selbyana 18(2): 200-214.

Lowman MD. 1997. Herbivory in forests - from centimetres to megametres. Forests and Insects. AD Watt, NE Stork & MD Hunter (eds.). Chapman & Hall: 135-149.

Lowman MD, D Murray, and P Wittman. 1997. Bromeliads along the ACEER canopy walkway in Amazonian Peru. Journal of the Bromeliad Society 47(2): 54-59.

Carruthers G, RL Kitching, and MD Lowman. 1996. Arthropod sampling in Australian subtropical rain forest: how accurate are some of the more common techniques? Selbyana 17: 36-42.

Lowman MD and P Taylor. 1996. Vertical stratification of small mammals in a northern hardwood forest. Selbyana 17: 15-21.

Lowman MD and PK Wittman. 1996. Forest canopies: methods, hypotheses and future directions. Annual Review of Ecology & Systematics 27: 55-81.

Lowman MD, D Murray, and P Wittman. 1996. Herbivory in a bromeliad of the Peruvian rain forest canopy. Journal of the Bromeliad Society 46: 52-55.

Zapfack L, MD Lowman, AB Nkongmeneck, and JF Villiers. 1996. The importance of Pteridophytes in the epiphytic flora of some phorophytes of the Cameroonian semi-deciduous rain forest. Selbyana 17: 76-81.

Bouricius B and MD Lowman. 1995. The construction of platforms and bridges for forest canopy access. Selbyana 16(2): 179-184.

Bouricius B, P Coley, F Hallé, MD Lowman, N Nadkarni, G Parker, K Saterson, and J Wright. 1995. What's up? Perspectives from the first international forest canopy conference at Sarasota Florida, 1994. Selbyana 16: 1-11.

Ingram SW and MD Lowman. 1995. The collection and preservation of plant material from the tropical forest canopy. IN: Forest Canopies. MD Lowman & N Nadkarni (eds.): 587-603.

Lowman MD. 1995. Herbivory in Australian forests - a comparison of dry sclerophyll and rain forest canopies. Proc. Linnean Society NSW 115: 77-87.

Lowman MD. 1995. Herbivory as a canopy process in rain forest trees. IN: Forest Canopies. **MD Lowman** & N Nadkarni (eds.): 431-455.

Lowman MD. 1995. Linking systematics and ecology to promote conservation. Selbyana 16: 125-126.

Lowman MD and W Linnerooth. 1995. Population dynamics of some native Florida epiphytes. II. Mortality after a storm. Journal of the Bromeliad Society 45: 15-17.

Lowman MD and M Moffett. 1995. Canopy access techniques. IN: Forest Canopies. MD Lowman & N Nadkarni (eds.). Academic Press: 3-25.

Lowman MD and N Nadkarni. 1995. Canopy science: a summary of its role in research and education. IN: Forest Canopies. MD Lowman & N Nadkarni (eds.): 609-613.

Lowman MD and PK Wittman. 1995*. The last biological frontier? Advancements in research on forest canopies. Endeavor 19: 161-165.

Lowman MD, M Moffett, and HB Rinker. 1995. Africa from the treetops. American Biology Teacher 57(7): 393-401.

Ballard RL, RM Levanthal, MD Lowman, TE Miller, and GM Wellington (curriculum content eds.). 1994. Jason Curriculum; The Belize Expedition Curriculum, Jason Foundation for Education.

Lowman MD. 1994*. Accessing forest canopies. American Orchid Society Bulletin: 1252-1255.

Lowman MD. 1994*. Ecology of the rain forest canopy in Belize. Jason Report, Jason Foundation, MA.

Lowman MD. 1994. What's up? Forest canopy scientists convene for first time at Selby Gardens. Diversity 10(4): 36-37.

Bergelson JM, RL Kitching, **MD Lowman**, and S McIntyre. 1993. The biodiversity of arthropods from Australian rainforest canopies: general introduction, methods, sites, and ordinal results. Australian Journal of Ecology 18: 181-191.

Doblecki S and MD Lowman. 1993. Population dynamics of some native Florida epiphytes. Journal of the Bromeliad Society 43: 175-177.

Heatwole H and MD Lowman. 1993. Rural dieback in Australia and subsequent landscape amelioration. Forest Decline in the Atlantic and Pacific Region. R Huettl & D Mueller-Dombois (eds.). Springer-Verlag: 307-320.

Lowman MD. 1993. Forest canopy research: New World, Old World comparisons. Selbyana 14: 1-2.

Lowman MD. 1993*. Raft in the treetops. Newsletter American Association of Botanical Gardens 220: 1-2.

Lowman MD and HB Rinker. 1993. A degree of excellence in biology teaching. Bird Watcher's Digest 14: 110-113.

Lowman MD and M Moffett. 1993. The ecology of tropical rain forests canopies. Trends in Ecology and Evolution 8(3): 104-107.

Lowman MD and PA Morrow. 1993. Insects and their environment: plants. The Science of Entomology, 3rd edition. A Romoser (ed.): 269-270.

Lowman MD, M Moffett, and HB Rinker. 1993. A new technique for taxonomic and ecological sampling in rain forest canopies. Selbyana 14: 75-79.

Lowman MD, M Moffett, and HB Rinker. 1993*. Sled Sweeping: A new technique for measuring insects in rain forest canopies. Biologie D'une Canopée De Forêt Equatoriale - II. F Hallé & O Pascal (eds.).

Lowman MD. 1992. Herbivory in Australian rain forests, with particular reference to the canopies of *Doryphora sassafras* (Monimiaceae). Proceedings of the 25th Silver Jubilee Symposium of the Organization for Tropical Studies. Biotropica 24(2b): 263-272.

Lowman MD. 1992. Leaf growth dynamics and herbivory in five species of Australian rain-forest canopy trees. Journal of Ecology 80: 433-447.

Lowman MD and H Heatwole. 1992. Spatial and temporal variability in defoliation of Australian eucalypts and its consequence for the dieback syndrome. Ecology 73(1): 129-142.

Lowman MD. 1991*. The dieback crisis - tree declines throughout the world. Center for Environmental Studies Journal, Williams College.

Lowman MD. 1991. The impact of herbivorous insects on Australian rainforest tree canopies. World Wildlife Fund, Volume III: Australian National Rainforest Study Report. GL Werren & AP Kershaw (eds.): 177-190.

Burgess AD and MD Lowman. 1990. A trial to determine the economic viability of a commercial lick block. Wool Technology and Sheep Breeding 38(4): 119-121.

Connell JH and MD Lowman. 1989. Low-diversity tropical rain forests: some possible mechanisms for their existence. The American Naturalist 134(1): 88-119.

Lowman MD. 1988. Litter fall and leaf decay in three Australian rainforest formations. Journal of Ecology 76: 451-465.

Burgess AD, WD Higgins, and MD Lowman. 1987. The biomass of New England peppermint (*Eucalyptus nova-anglica*) in relation to insect damage associated with rural dieback. Australian Journal of Ecology 12: 361-371.

Heatwole H and **MD Lowman**. 1987. Dieback: death of an Australian landscape. If Atoms Could Talk. R Love (ed.). Greenhouse Publications: 42-49.

Heatwole H and **MD Lowman**. 1987. The impact of defoliating insects on the growth of eucalypt saplings. Australian Journal of Ecology 12: 175-181.

Lowman MD. 1987. Relationships between leaf growth and holes caused by herbivores. Australian Journal of Ecology 12: 189-191.

Heatwole H and **M Lowman**. 1986. Dieback, death of an Australian landscape. Frenchs Forest, NSW: Reed: 150 pp.

Lowman MD. 1986. Light interception and its relation to structural differences in three Australian rainforest canopies. Australian Journal of Ecology 11: 163-170.

Lowman MD. 1985. Insect herbivory in Australian rain forests - is it higher than in the Neotropics? ESA Symposium Proceedings: Are Australian Ecosystems Different? Proceedings of Ecological Society of Australia 14:109-119.

Lowman MD. 1985. Temporal and spatial variability in insect grazing of the canopies of five Australian rain forest tree species. Australian Journal of Ecology 10: 7-24.

Lowman MD. 1984. An assessment of techniques for measuring herbivory: is rain forest defoliation more intense than we thought? Biotropica 16(4): 264-268.

Lowman MD. 1984. Grazing of *Utetheisa pulchelloides* larvae on its host plant, *Argusia argentea*, on coral cays of the Great Barrier Reef. Biotropica 16(1): 14-18.

Box JD and MD Lowman. 1983. Variation in leaf toughness and phenolic content among five species of Australian rain forest trees. Australian Journal of Ecology 8: 17-25.

Lowman MD. 1983*. Rain forest insects and their host plants. Biology in Action.

Lowman MD and BJ Selman. 1983. The biology and herbivory rates of *Novacastria nothofagi* Selman (Coleoptera: Chrysomelidae), a new genus and species on *Nothofagus moorei* in Australian temperate rain forests. Australian Journal of Zoology 31: 179-191.

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 <u>Life as an Arbornaut Mentoring young</u> 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 <u>Life in the Treetops The birds and the bees of the canopy</u>
- 2012 Science Café, Raleigh NC I Speak for the Trees...
- 2012 Institute for Emerging Issues, annual meeting <u>Back to our Roots Eating Healthy and</u> 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, <u>Climate Change Education The NRC as a tool for researchers' broader impacts</u>
- 2011 ScienceOnline Conference, Durham NC <u>Life in the Treetops Challenges of scientists</u> communicating to the public Keynote lecture
- 2011 Martin Luther King Day presentation, Bethlehem Church, Durham NC <u>Saving the</u> 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 <u>A blueprint for a clean-energy future Climate change, economics, and conservation</u>
- Fulbright senior specialist scholar lecture series, India Thiruvananthapuram, Kerala state, Department of Forestry headquarters, <u>UN Year of the Forest Inspiring New Stakeholders for Forest Conservation</u>
- 2011 Fulbright Foundation Day, CPR Environmental Center, Forestry Department, Chennai India <u>Life in the Treetops Forest Canopies Promote Conservation, Economics, and Education</u>
- 2011 Fulbright forest lecture series, Guwahati, state of Assam India, Cotton College <u>United Nations International Year of the Forest: Inspiring New Stakeholders to Reverse</u>
 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, <u>Plant-Insect Relationships in Forest Canopies the</u> Herbivory Perspective
- 2011 <u>Nature Research Center STEM Education in the 21st Century</u> Presentation for Deans of Extension, Engagement, and Economic Development, NCSU

- 2011 NCSU Veterinary School, annual lunch <u>Life in the Treetops Challenges of Women in</u> Field Biology
- 2011 <u>Beta-diversity of human skin bacteria studied with the citizen science approach</u> Ecological Society of America's annual meeting
- 2010 Wiley Elementary School Science Night <u>How Many Species Exist on Planet Earth?</u> 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 <u>A blueprint for Florida's clean energy future How canopy ecology and students contributed to shaping state climate change policy</u> Ecological Society of America's annual meeting
- 2010 <u>Can scientists inspire local actions for environmental justice? Role and challenges of ESA's education outreach and diversity initiatives</u> Ecological Society of America's annual meeting
- 2010 <u>Tropical conservation and education outreach, as influenced by Connell's legacy</u> Ecological Society of America's annual meeting
- 2010 <u>An exploration of modeling the spread of the Burmese python, *Python mourus* Ecological Society of America's annual meeting</u>
- 2010 <u>Virtual versus real ecology education</u> 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 <u>Diversity Lunch, Chair and Moderator</u> 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 <u>Conservation of the church forests of Ethiopia</u> 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, <u>Life in the Treetops Meet the new NRC director</u>
- 2010 Friends of Museum Board meeting <u>It's a Jungle Up There Challenges in science</u> education
- 2010 <u>Millions of beetles Biodiversity and climate change at a crossroads?</u> Church talk in Chapel Hill NC
- 2010 Opening welcome talk, Sustainable Education Summit; invited talk on <u>Virtual Versus</u>
 Real Environmental Education (with Rob Stevenson, U. Mass)
- 2010 Summary and next steps for STEM education, Sustainable Education Summit
- 2010 <u>It's a Jungle Up There Challenges of women in science</u>, 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, <u>Tropical Rain Forests 101 Exploration and research of global</u> 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 hotair 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.

"R Board Description" (Screen Print)

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.

"R Board Description" (Screen Print)

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: Ap

April 28, 2016