MARGARET DALZELL LOWMAN

Director, Nature Research Center
North Carolina Museum of Natural Sciences
Research Professor, Physical & Mathematical Sciences
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CURRICULUM VITAE

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Web sites: www.canopymeg.com www.naturalsciences.org

www.treefoundation.org 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. in Biology cum laude
	Minor in Geology and Environmental Studies.

EMPLOYMENT

2011 - on	Science columnist, News & Observer, North Carolina newspaper	
2010 - on	Director, Nature Research Center, NC Museum of Natural Sciences, and	
	Research Professor, Physical and Mathematical Sciences, NC State University	
2004 –on	Executive Director, TREE Foundation Inc.	
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	
2003 - on	Science columnist, Sarasota Herald Tribune newspaper, FL	
1999 - 2003	Chief Executive Officer, Selby Botanical Gardens, FL	
1992-2000	Adjunct Professorships at Williams College, University of Florida, University of South	
	Florida (Tampa), New College of Florida, Ringling School of Art & Design, FL	
1992 -1999	Director of Research & Conservation and Jessie Cox Chair in Tropical Botany,	
	Selby Botanical Gardens, FL	
1989 - 1992	Visiting Professor 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- 1887	Postdoctoral Fellow, Zoology Department, University of New England	
1978 – 1981	Lecturer in Adult Education, Sydney University	

ACADEMIC HONORS

Graduate and Undergraduate

1983-1987	Australian Research Council Postdoctoral Fellowship
1979 – 1983	Sydney University Fellowship
1983	Sydney University, Australian Museum Award for postgraduate research
1976 - 1977	Duke University Fellowship

1976

1972-1976

Williams College, Dwight Botanical Prize Williams College, Dean's List Williams College, Geology Summer Field camp Scholarship 1974

PROFESSIONAL HONORS

PROFESSIONAL HONORS		
2012 Rolex invited Forum speaker, Rolex Awards Ceremony, New Delhi, India		
	Appalachian State University, Commencement speaker	
	Invited to serve on White House Women and Environment Committee	
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-	Fulbright Board Senior Specialist Scholar, term 2008-2013	
2008-	Elected to Earthwatch International Board of Directors	
2008-12	Re-elected Vice President for Education & Diversity, Ecological Society of America	
2008	Elected Fellow of Wings WorldQuest, honoring women in exploration	
2007- 09	Appointed Science Advisor for Climate Change to Florida CFO, Alex Sink	
2007	Florida Society of Botanical Artists - Gaia Award for Excellence	
2007	Appointed to NEON Education Tiger team	
2007-2009	Elected Vice President for Research and Education, The Explorers Club	
2007	Mendel Medal for achievement in science & spirit, Villanova University	
2006	Aldo Leopold Leadership Fellow	
	Lowell Thomas Medal for Scientific Exploration, The Explorers Club	
2006-9	Elected Vice President for Education & Diversity, Ecological Society of America	
	Nominated for Weizmann Women and Science Award	
2006-	Advisory Board for Floresta (linking deforestation to poverty and finding solutions)	
2005-2008	NEON senior design team (National Ecological Observatory Network)	
2005-11	Elected to the Board of Directors, The Explorers Club (and re-elected)	
2004	Chief Scientist, The Jason Project in Science Education – Panama: Rain forests at the	
	Crossroads	
2003	Disney Leadership Institute for Biodiversity (w/ World Wildlife Fund)	
	Woman in Power Award, National Council of Jewish Women (NCJW)	
	Certificate of Honor, Sarasota County Commission on the Status of Women	
	Asteroid (10739) Lowman named by Carolyn Shoemaker, US Dept. of Interior	
2002	Kilby Laureate Medalist honoring work as a rainforest canopy expert	
	Ecological Society of America, Eugene Odum Award for Excellence in Ecology	
	Education	
2001-4	Elected by Williams College alumni as Board of Trustees Tyng Administrator	
	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	
	Williams College Bicentennial Medal for achievements in tropical botany	
	Phi Delta Gamma Educators' Award for book, <u>Life in the Treetops</u>	
1999	Margaret Douglas Medal from National Garden Club of America for	
	Conservation Education	

	Chief Scientist, The Jason Project in Education in the Amazon, Peru
1999–00	Board of Scientific Advisors, Amazon Center for Education & Environmental Research
1992-00	Selby Gardens, appointed to The Jessie B. Cox Endowed Chair in Tropical Botany
1998 -	Selection to Leadership Florida, Class XVI
1997 -	Elected Fellow of The Explorers Club
1995 -	Board of Scientific Advisors, Intl. Center for Tropical Biology, Univ. of Missouri
1994	Chief Scientist, The Jason Project in Science Education 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
1991-98	Education Board, Massachusetts Tropical Conservatory
1990-95	Board of Science Advisors, Earthwatch

ADMINISTRATIVE and EDITORIAL ACTIVITIES

2012 Co-chair, 6 th International Canopy Conference, Oaxaca, Mexico	
	National Science Foundation, PIRE (Programs for International Research and Education)
	Review panel
2011	National Science Foundation, Macrobiology Review panel
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
2002- on	Executive Director of TREE Foundation, Sarasota FL
2003-2010	Director of Environmental Initiatives, New College of Florida
2001-	Founder and member of Science and Environment Council, Sarasota
	County (Chair 2001-2003)
1998	Co-Chair (with Francis Hallé, France), 2 nd International Canopy Conference:
	Global Perspectives (with participants from 35 countries)
1998–2000	Finance Committee, Leadership Florida
1995-98	European Science Foundation (ESF) - tropical studies initiative committee
1994	Co-Chair (with Francis Hallé, France), 1 st International Canopy Conference,
	(with participants from 28 countries)
1993 - 09	Association for Tropical Biology & Conservation, Secretary-Treasurer
1992 - 99	Editor for Selbyana [botanical journal]
1989 - 92	Williams College, Center for Environmental Studies Faculty Committee.
1987 - 89	Association for Tropical Biology, elected Councilor
1979 - 80	Sydney University, student representative to Board of Biological Sciences
1977 -78	Duke University, Advisory Committee to Dean
1977 -78	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, and many academic book publishers.

BUSINESS	EXPER	IENCE
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BUSINESS EXPERIENCE			
2010-	Director, Nature Research Center, NC Museum of Natural Sciences, a \$65 million		
	construction and education private/public partnership (<u>www.naturalsciences.org</u>).		
2008	Sustainability Consultant to Tommy Hilfiger Foundation		
2008	Chair, Mission/Vision committee, The Explorers Club (1st mission revision after		
	101 years)		
2002- on	Executive Director, TREE Foundation (<u>www.treefoundation.org</u>)		
1999-2003	CEO of Marie Selby Botanical Gardens, Sarasota, day-to-day operations of botanical		
	garden (budget \$3.4 million) including strategic planning, programs, fund-raising 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 many 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; a new perimeter delineation; a 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		
	- 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, creating annual budgets, initiated		
	computerized accounting and set up the Society's first endowment		
1992-1999	Director of Stark Research Center, Selby Gardens: oversee administration, budget,		
	grants, data collection, public relations, conferences, and outreach for eight staff and		
twenty-one volunteers; raised > \$ 2 million			
1992-Present	Co-Founder, Canopy Construction Associates, a company that specializes		
	construction of canopy walkways for research and education institutions worldwide		
	(www.canopyconstruction.com)		
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		
1001 1000	weather-related, market driven business		
1981-1989	Administered Earthwatch field expeditions in Australia, including		
1055 1050	budgets, purchasing, travel logistics, data analyses, and publications		
1977-1978	Environmental Protection Agency, air pollution regulation		
1972-1976	Assistant, Payroll Office, Williams College		

TEACHING EXPERIENCE

2011 - on	Field courses in tropical ecology for NCSU; Science Communication workshops
2003-2010	Professor of Biology and Environmental Studies, New College of Florida: Plant

1983-1987 University of New England, Australia, Botany Dept - Agronomy, General Biology 1981-1989 Earthwatch, Principal Investigator, 10 field research expeditions 1979-1982 Sydney University, Lecturer, Adult Education Department Plant Taxonomy, Plant Ecology, Beginning and Advanced sections		Schools (SOS), Conservation Biology, The Ecology of Extreme Environments, Climate
2004 Florida Science Teachers Association – leader of Panama rain forest workshop 2004-2010 Appointed Director of Environmental Initiatives, New College of Florida 2004-07 Leader of New College Foundation natural history trips to Amazon, Galapagos, and Belize 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.) 1998–2002 Instructor for Williams College Alumni expeditions to Australia and Peru 1993-1996 New College, Fl., Biology & Environmental Studies Department Adjunct - Conservation Biology, Environmental Botany, and Plant Ecology 1994 University South Florida, Biology Department Adjunct - Conservation Biology 1992 University of Minnesota - Conservation Biology (field course, Lake Itasca) 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) 1988-1987 University of New England, Australia, Botany Dept - Agronomy, General Biology 1981-1989 Earthwatch, Principal Investigator, 10 field research expeditions 1983-1984 Sydney University, Lecturer, Adult Education Department Plant Taxonomy, Plant Ecology, Beginning and Advanced sections Sydney University, Teaching Assistantships - Plant Physiology, Plant Ecology, Plant & Animal Biology, Botanical Methods, and Natural Resources Ecology Williams College, Teaching Assistantships - Field Botany, Environmental Biology,		Change, Canopy Ecology, Science Education, Tropical Ecology; field courses to
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		Animal Biology, Botanical Methods, and Natural Resources Ecology
	1975–1976	

Ecology (Intro. and Advanced), Communities and Ecosystems, Environmental Issues senior tutorial, The Role of Women in Natural History, Science Outreach in Local

TEACHING OUTREACH & INNOVATIVE EDUCATION

LETTOTT	OF TREME WITH VERENCE CONTROL
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 Environment"
2010	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
	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 educator to at-risk teenage girls, annual program
2008	Funded and hosted Invasive Reptile workshop for state of Florida
2008	PASI –National Science Foundation graduate workshop, taught canopy ecology in Peru
2006-on	Website, <u>www.canopymeg.com</u> (> 1 million hits per year)
2008	Pierian Academy teaching adult ecology education
2007	Featured in National Geographic Explorer, Natural History, and Smithsonian

2007	Magazines for canopy exploration "No Child Left Indoors" proclamation to city and county of Sarasota; charter for
2007	Ecological Society of America and other environmental groups
2005-on	Science columnist for Sarasota Herald Tribune newspaper (<i>Nature's Secrets</i>)
2004-on	Tutored New College 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, a national series to educate K-9
1001	about science and reading
1991	Initiated program for Williams College students to work with elementary classes to
1000 D	produce games that demonstrated environmental principles
1980-Present	
1070 1002	students, high schools, and elementary classes each year
1979-1983	Sydney University, Adult Education, - proposed and designed two new
1977	biology courses, and taught all lectures and labs
1977 1969-1976	Massachusetts Audubon Society, Merck Forest, Vermont
1909-1970	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
	Education and wenate

BOOK PRIZES

2006	Natural History magazine, End Notes on 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

REU NSF grant - Conservation of the forests of Ethiopia (with Colby College, submitted 2013 \$248,000)

2013	REU NSF grant – Can religion save the forests of Ethiopia (with Colgate University, submitted \$450,000)
2013	NSF MSP grant – Students Discover: Improving middle school STEM outcomes through
2013	hypothesis driver citizen science (\$8 million)
2013	Treehouse for southwest Florida children (\$43,000 from TREE Foundation)
2012	National Science Foundation, Informal Science Education – Levels of Learning: How
We	Know What We Know, (subm. \$1,900,000)
2012 -	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)
2012	Spurlino Foundation – conservation of Ethiopian church forests (\$25,000)
2012	Forest Service partnership for biodiversity lab (\$130,000); Dunn lab partnership for
	biodiversity lab (\$90,000).
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 (>\$15,000 for sustainability workshop for clergy)
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
curric	
2008	National Institute of Health – Multi-user virtual reality-based 3-D environment for
2008	Environmental health science (\$99,997 w/ Michel Kozhevnikov)
2008	National Science Foundation - Ecosystem Services at the forest/village interface in
2007	Thailand- ecological processes and economic valuation (\$570,470, not funded) Economic Development Corporation, web site development for regional government
2007	biological field station project (\$5000)
2007	Canopy Ecology – regional and international (Triad, \$25,000)
2004-2007	Sarasota County, Environmental Services to regional government (\$200,000)
2005	Economic Development Corporation – field station green design (\$5000)
2006	Student Outreach in Science (SOS) – environmental education grant (Community
2000	Foundation, \$11,000)
2005-2007	Canopy Ecology – regional and international (Triad, \$35,000)
2002	Triad Foundation – Canopy Ecology –research and outreach (\$30,000)
2003	Aaron Foundation – Canopy ecology – public programs (\$10,000)
	Herbivory protocols using canopy cranes Global Canopy Program, (\$26,178)
1999-03	Links between the canopy and the forest floor, National Science Foundation (\$419,976)
	plus student participation: Ecological Circuitry Collaboratory (\$59,932)
2004	Jason X Project for Education, ACEER, Peru (approximately \$25,000)
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	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)
1993-1994	Jason V Project - Biodiversity in the rain forest canopies of Belize (~\$75,000)
1993-1998	Long-term studies of trees in tropical and subtropical forests, with Joseph Connell and Ian Noble, NSF (\$250,000).
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).*
1982-1988	Insect abundance and distribution in Australian rainforest canopies. Earthwatch (\$312,000 for multiple expeditions).
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).*
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 re-organize 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
1974	regression models). Co-authored high school curriculum in environmental education for high schools (Department of Health, Education and Welfare).

PUBLICATIONS

Books:

Lowman, M.D., S. Devy, and T. Ganesh. 2013. Treetops at Risk. Springer Verlag).

Lowman, M.D., Schowalter T., & Franklin J. 2012. Methods in Forest Canopy Research (University of California Press).

Lowman, M.D., Burgess, Edward & Burgess, James. 2006. It's a Jungle Out There – More Tales from the Treetops. Yale University Press. 291 pp. (2008 paperback; 2009, reprinted in Korean).

Lowman M.D. and Rinker H.B. 2004 (eds.) Forest Canopies. Elsevier Academic Press.

Lowman M. D. 1999. Life in the Treetops. Yale University Press. (Editions in German, Chinese and Korean; paperback version in 2002)

Lowman M.D. and Nadkarni N.M.(eds.) 1995. Forest Canopies. Academic Press 624 pp. (Second Edition in paperback 1996)

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

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

National Leadership Reports:

Lowman, M.D. 2012. Health and environment - kids and treehouses. <u>www.epa.gov</u>, blog from Women and Environment White House summit.

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

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.

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

Lowman M.D. 1974. Some Aspects of the Fabric of Life, U.S. Department of Health, Education and Welfare 204 pp.

Theses:

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

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

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

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

Lowman, M. D., T. Ganesh, and S. Devy. 2013. International conferences as conduits for science education outreach – engaging diverse stakeholders. IN: Treetops at Risk, Springer Verlag.

Lowman, M.D. 2012. North Carolina leverages funding for science education. Science 335: 1201.

Cardelus, C., **M. D. Lowman** and A. Wassie. 2012. Uniting church and science for conservation. Science 335: 932.

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

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

Yadvindar, M, R. Owen, **M. D. Lowman** and R. Ewer. 2012. Tropical rain forests – conservation and research interfaces as solutions for the future? IN: Key Topics in Tropical Biology, (ed. David McDonald).

Lowman M.D.2011. Out on a limb: true confessions of a bug detective. IN: Chemical Biology of the Tropics, p. 87-06.

Lowman, M.D. and T. Schowalter. 2011. Plant science in forest canopies – the first 30 years of advances and challenges. New Phytologist (invited Tansley Review) 2012: 1-15.

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

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Lowman, M.D. 2011. Sustainability education: Challenges of integrating virtual versus real nature in science education. Encyclopedia of Sustainability Science and Technology (ed. R. A. Meyers). Springer Verlag.

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

Lowman, M. D. 2010. Finding sanctuary – saving the biodiversity of Ethiopia one church forest at a time. The Explorers Journal 88: 26-35.

Lowman, M.D. 2010. Forest canopies – a scientific history. IN: D.K. Bhaskar, Amazonia – Perspectives of a Jungle. Fine Arts Publications, Savannah GA.

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

Nadkarni, N., Parker, G., and **Lowman, M.** 2010. Bibliometric assessment of canopy biology throughout its history. Journal Forest Science.

Voirin, B, Kayes R., **Lowman M.D.**, Wikelski M., 2010. Evidence for three-toad sloth (Bradypus variegatus) predation by spectacled own (Pulsatrix perspicillata). Edentata 8: 15-19.

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Lowman M.D., D'Avanzo, C. Brewer C. 2009. NEON – A national ecological network for research and education. Science 323: 1176-78.

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Lowman M.D. 2009. A blueprint for Florida's clean-energy future-Forum on Public Policy. Oxford University. Sustainability 1: 102-112

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M.D. Lowman. 2005. Ecotourism and its impact on forest conservation. http://www.actionbioscience.org/environment/lowman.html

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Hunter M.D. Lowman M.D. Rinker H.B. Schowalter T.D. and Fonte S.J. 2001. Canopy herbivory and soil processes in temperate and tropical forests. Tropical Ecosystems. (Edited by K.N. Gaenshaiah, R. Uma Shaanker and K. S. Bawa): 433.

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Lowman M.D. 2000*. Heat futures in Australia's rain forests. Earthwatch Institute. p. 25-37.

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T.D. Schowalter **and M.D. Lowman**. 1999. Forest herbivory: insects. Ecosystems of the World, p. 253-270.

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

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Lowman M.D. 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 M.D. 1984. An assessment of techniques for measuring herbivory: Is rain forest defoliation more intense than we thought? Biotropica 16(4): 264-68.

Lowman M.D. 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.

Lowman M.D. and Selman B.J. 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 31:179-91.

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

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

Lowman M.D. 1982. The effects of different rates and methods of leaf area removal on rainforest seedlings of coachwood (*Ceratopetalum apetalum*). Australian Journal of Botany 30: 477-83.

Lowman M.D. 1982. Seasonal variations in insect abundance among three Australian rain forests, with particular reference to phytophagous types. Australian Journal of Ecology. 7: 353-61.

Newspaper column entitled: **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-onward)

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

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

INVITED, KEYNOTE AND CONFERENCE LECTURES (NOT INCLUSIVE)

2010 - 2012

- 2012 Rolex Awards ceremony, New Delhia India <u>Life as an Arbornaut mentoring young</u> Indian leaders
- 2012 St. Mary's College in the Woods, Indiana <u>Life in the Treetops: challenges of women in</u> science
- 2012 Jimma University, Ethiopia New Perspectives for the future of STEM Education
- 2012 NCREN keynote lecture <u>STEM Education at the new Nature Research Center: Linking Virtual and Real Nature</u>
- 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 <u>Challenges of women and minorities in science</u>.
- 2012 National Science Foundation GK-12 keynote speaker, annual meeting, Washington DC Out on a Limb Linking Real and Virtual Nature for Generation Z
- 2012 SCOPE, NC State University, annual keynote speaker, Raleigh NC
- 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, Commencement speaker, Boone NC
 - 2011 Princeton Alumni Association STEM Education in America, from K through Gray
- 2011 Southeast Climate Science Center Workshop presentation, <u>Climate Change Education</u> the NRC as a tool for researchers' broader impacts.
- 2011 ScienceOnline Conference <u>Life in the Treetops challenges of scientists communicating to the public.</u> Keynote lecture, Marriott Hotel, Durham, NC.
- 2011 Martin Luther King day presentation <u>Saving the forests of Ethiopia</u>, <u>one church at a time</u>. Bethlehem Church, Durham NC
 - 2011 Science Café, Tir Na Nog restaurant, Raleigh 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</u> climate change, economics, and conservation
- 2011 Fulbright senior specialist scholar lecture series, India Thiruvanthapuram, 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 Life in the Treeetops Forest Canopies Promote Conservation, Economics, and Education
- 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 Deforestation.</u>
- 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, <u>Plant-insect Interactions in Tropical Rain Forest Canopies</u>
- 2011 NCSU Entomology Department, <u>Plant-Insect Relationships in Forest Canopies the herbivory perspective</u>

- 2011 <u>Nature Research Center STEM Education in the 21st Century</u>, presentation for Deans of Extension. Engagement, and Economic Development, NCSU.
- 10 Wiley Elementary School Science Night, <u>How Many Species Exist on Planet Earth?</u> K-5 science night.
- 2011 NCSU Veterinary School, annual lunch- <u>Life in the Treetops</u> <u>Challenges of Women in Field Biology</u>
 - 2010 Earthwatch Institute, Costa Rica Rainforests 101 and Copenhagen Update
 - 2010 Ferrum College keynote speaker for Women in Science Forum
- 2010- What will ecology education look like in 2020? Chair and keynote at Ecological Society of America session, annual meeting
 - 2010 <u>Virtual versus real ecology education</u> presentation at 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- <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. <u>Bugs R Us research on insects in forest canopies</u>
 - 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 <u>It's a Jungle UP there challenges in science</u> education
- 2010 $\underline{\text{Millions of beetles}}$ biodiversity and climate change at a crossroads? Church talk in Chapel Hill
- 2010 Opening welcome talk, Sustainable Education Summit; invited talk on <u>Virtual versus</u> Real environmental education (with Rob Stevension, U. Mass)
 - 2010 Summary and next steps for STEM education, Sustainable Education Summit
 - 2010 TREE Foundation annual meeting, Executive Director's Report
- 2010 <u>It's a Jungle Up There challenges of women in science</u>, Career Series, NCSU postdocs and graduate student career forum.
- 2010 It's a Jungle Up There mentoring session for students from emerging countries. Rolex organized session, Geneva Switzerland.
 - 2010 Brimley Ball, keynote talk for fund-raiser, 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

Keynote speaker, Keep Sarasota Beautiful, FL - invited

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 invited lecture, 2007

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 – Earth Day assembly for grades 2-12, 2008

Florida Secretary's Association annual meeting, Univ. Florida 2008

University of Washington – Urban Horticulture, School of Forestry

Ecological Society of America 2008 – Session co-chair "No Child Left Indoors"

Ecological Society of America 2008 – Book-Publishing 102: Writing for

Technical and Public Audiences

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 – plenary address, 2008, Sydney Australia

Senior Friendship Center lecture series

Baker University, KS 2009 invited lecture

Gustavus Adolphus College – keynote speaker, Linneaus Symposium

University of California – Santa Barbara 2009 Biology Department

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, invited speaker, Malaysia

World Bromeliad Conference, invited speaker, Florida

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 2002, Arizona –

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, MI – 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

Bowling Green State College, 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 and school and civic groups, FL

1996-2000

Alumni Speaker, Williams College MA - invited

Brazilian Congress of Botany, Invited Keynote Speaker, Brazil

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

Keynote Speaker, Global Studies 1998 Conference, University of Minnesota

Chair, 2nd International Forest Canopies 1998: Global Perspectives, Sarasota FL

Keynote Speaker, Tropical Rain Forest Canopies Conference, Oxford University - invited

Jason X speaker, BOCES, Long Island – invited keynote

Gifford Arboretum Distinguished Lecture 1999, Miami Florida - invited

Garden Club of America 1999 Awardee Dinner, New Jersey – invited keynote

International Rotary Governors Convention, Sarasota, FL. - invited

1990-1995

The Madeira School, VA – invited keynote

Botany Department, University of Hawaii, Manoa HI

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 1994 Young Explorer, Washington DC – 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 1995 Invited Lecture - Russell Sage Colleges NY – invited keynote

Tropical Rain Forest Destruction Conference, Cambridge Univ. UK - invited

British Entomological Society, London UK - invited

Professor Lampton Invited Annual Lecture, West Georgia College GA

1980-89

Royal Botanic Gardens, Sydney NSW Australia - invited

CSIRO Division of Plant Industry, Canberra Australia - invited

Herbivory Conference, Kosciusko 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