

Promotion Recommendation
The University of Michigan
School of Natural Resources and Environment

Maria Carmen de Mello Lemos, associate professor of natural resources and environment, with tenure, School of Natural Resources and Environment, is recommended for promotion to professor of natural resources and environment, with tenure, School of Natural Resources and Environment.

Academic Degrees:

1995	Ph.D.	Political Science, Massachusetts Institute of Technology
1990	M.Sc.	Political Science, Massachusetts Institute of Technology
1983	B.S.	Economics, Universidade Federal de Juiz de Fora – UFJF (Brazil)

Professional Record:

2006 – present	Associate Professor, School of Natural Resources and Environment, University of Michigan
2003 – present	Faculty Associate, Program of the Environment, University of Michigan
2000 – present	Senior Policy Scholar, Udall Center for Studies in Public Policy, University of Arizona
2006 – 2007	James Martin 21st Century School Fellow, Environmental Change Institute, Oxford University, England
2002 – 2006	Assistant Professor, School of Natural Resources and Environment, University of Michigan
2001 – 2002	Assistant Professor of Latin American Studies, University of Arizona
1998 – 2002	Assistant Research Professor of Latin American Studies, University of Arizona

Summary of Evaluation:

Teaching: Professor Lemos has made significant contributions to teaching and advising in the School of Natural Resources and Environment (SNRE) and to the undergraduate Program in the Environment (PitE) at Michigan. Between Winter 2006 and Winter 2011, she conducted 14 classes consisting of courses in her area of expertise (ENV 212, Global Change; ENV 313, Environment and Development; ENV 555, Climate and Development; and ENV 563, International Environmental Policy) and service courses (principally NRE 580, Integrated Problem Solving). Enrollments in her classes have been good to strong ranging from the mid-20s in classes in her area of specialization to over 100 in the last two offerings of NRE 580. Student evaluations have been especially strong in her elective courses.

Professor Lemos' record of advising and mentoring students has been outstanding. Since 2006, she has: a) chaired or co-chaired six Ph.D. student's committees; b) chaired or co-chaired 12 master's student's committees; c) been a member of 20 Ph.D. committees and two M.Sc./practicum committees; and d) supervised overseas field research for nine graduate students. Currently, she co-advises a five-student Master's Project, advises a post-doctoral fellow, and co-advises an additional two post-doctoral fellows. She maintains an open-door policy with her students, allowing them to seek and obtain advice from her as frequently as needed. Letters from former students attest to her generosity of time, the high scholarly standards she sets, and the abundance of encouragement and help they receive from her. Indeed she is seen by her students as an inspiration and role-model.

Research: Professor Lemos is a highly regarded scholar nationally and internationally and is seen as an important leader in her field. Her scholarship has made significant contributions in three key areas: the co-production of science and policy and the use of scientific information in management and governance settings; the science of climate adaptation and impacts; and the analysis of resource governance, with a particular focus on water. Her scholarly productivity is exceptional. In the five years since her last promotion, Professor Lemos has produced 35 publications, 22 of which have been in peer-reviewed scientific journals. Of these, she has been first author of eight, second author of eight, and third author or higher of an

additional six journal publications. She is also first author of four book chapters and a lead author or co-author of a number of important reports. She is widely cited and has published in the top-rated journals in her field. "Environmental Governance," published in 2006, is listed by the *Annual Review of Environment and Resources* as among its top 10 most downloaded articles since 1996 (6729 times as of January 14, 2012). Professor Lemos has been highly successful in generating research funding. Since 2006, she has held or currently holds five national-level grants or contracts as a PI or co-PI. Of these, she is or has been the PI on grants totaling \$699,000; and a co-PI on grants totaling almost \$15,000,000.

Recent and Significant Publications:

- Engle, N. and Lemos, M.C. 2010. "Unpacking Governance: Building adaptive capacity to climate change for river basins in Brazil," *Global Environmental Change*, 20: 4-13.
- Lemos, M.C., Bell, A., Engle, N., Formiga-Johnsson, R., and Nelson, D.R. 2010. "Technical Knowledge and Water Resources Management: A Comparative Study of River Basin Councils, Brazil," *Water Resource Research*, Volume: 46:W06523.
- Eakin, H. and Lemos, M.C. 2006. "Adaptation and the state: Latin America and the challenge of capacity-building under globalization," *Global Environmental Change*, 16(1): 7-18.
- Lemos, M.C. and Arun A. 2006. "Environmental governance," *Annual Review of Environment and Resources*, 31:297-325.
- Lemos, M.C. and Morehouse, B.J. 2005. "The co-production of science and policy in integrated climate assessments," *Global Environmental Change*, 15(1): 57-68.
- Lemos, M.C. and De Oliveira, J.L.F. 2004. "Can water reform survive politics? Institutional change and river basin management in Ceara, Northeast Brazil," *World Development*, 32(12): 2121-2137.

Service: Professor Lemos has served on a number of university committees, including the Faculty Senate, the Fulbright Selection Committee, and the LACS Advisory Board. In SNRE, she has served on the Research Committee and the Professor of Practice Search Committee, and currently serves on the school's Executive Committee. Professor Lemos' professional service contributions are particularly noteworthy. She has served on four National Research Council committees since 2006; chaired the Social Science Task Force for UNESCO's International Ecohydrology Programme; contributed to IPCC's Fourth Assessment Report; and was a lead author on the IPCC's Fifth Assessment Report. Professor Lemos helped Michigan attract a NOAA-supported Regional Integrated Sciences and Assessment (RISA) center, and has provided leadership across the 12-center RISA national network in defining key social science questions and approaches particularly suited to the RISA programs. These involvements underscore Professor Lemos' national and international reputation as a leading scholar in her field.

External Reviewers:

Reviewer A: "I judge Maria to be a highly creative and rigorous researcher who makes a significant contribution to knowledge on environmental governance through her application of theory and through thorough and rigorous methods. As such, Maria Carmen's interventions and writings are always important and worth reading. Maria Carmen's contribution to diverse research areas (on climate information, on water management, and on adaptation options for climate change) is highly regarded by the international research community."

Reviewer B: "Overall, this record documents a pattern of steady and sustained productivity in publishing her work in many of the leading and widely respected field journals of environmental science and policy... A number of her publications have had wide impact: her article in the *Annual Review of Environment and Resources*, for instance, is identified as the 10th most frequently downloaded article in that journal's history (6,664 times), and that journal is itself ranked as the highest-impact journal in the field of environmental studies... [S]he has earned both recognition and respect in the national and international communities of interdisciplinary climate change scholars."

Reviewer C: "I have much respect for Dr Lemos' work as a scholar; I believe she undertakes cutting-edge interdisciplinary work, has extensive knowledge of the policy aspects of her topic, and appears to have indefatigable energy and motivation for her work."

Reviewer D: "I would put her research on such topics as adaptive capacity, environmental governance, and use of scientific information for policy development among the best that have been produced in the past ten years or so... I have reviewed many promotion applications at universities and I can say without question that Maria's is one of the best I have reviewed. You should consider yourself fortunate to have such a high quality scholar on the faculty of SNRE."

Reviewer E: "Lemos is a leader in a unique confluence of research topics – responding to climate change and the effective use of scientific information in decision making. In both areas her work has been exceptional, and the combination of the emphases sets her apart from many of her peers... She is clearly playing an active role in helping to shape the course of climate and global change research in the United States... While there are many scholars looking at climate impacts, forecasts and science policies, there is no one with her unique combination of talents and expertise... I do expect her to be a leading voice in this field for another several decades... Michigan is fortunate to have Lemos on its faculty."

Reviewer F: "Dr. de Mello Lemos has made remarkable intellectual advances to improve our understanding of global, national, and local environmental issues maintaining a balance between theoretical and empirical contributions. Her research has been influential in shaping scholarship and practice in her field... Her success procuring research funds and publishing her work in top journals demonstrates the quality and recognition of her achievements... [She is] an impressive and outstanding international scholar. We would be fortunate to have her as a full professor in our university."

Reviewer G: "I don't believe there is another social scientist at a comparable career stage whose contributions to scholarship about climate science and societal outcomes rivals Lemos... Her raw productivity, the originality and excellence of her research, and the impact of her work on a broad range of scholarship, as well as within the public and policy spheres, are admirable, enviable, and on a progressively and decisively upward trajectory."

Summary of Recommendation: Professor Lemos is a nationally and internationally recognized scholar in the science, policy, and use of scientific information in management and governance settings, and the science of climate adaptation and impacts. She has achieved an extraordinary rate of productivity, publishing in scientific journals of high impact and obtaining external research funding from preeminent agencies as the National Science Foundation. She is widely cited and very highly regarded by her peers and is seen as a national and international leader in her field. She has also been a superb mentor and advisor to her graduate students and has made valuable contributions to SNRE and the University's teaching program, both at the undergraduate and graduate levels. In light of her outstanding contributions, I enthusiastically recommend Maria Carmen de Mello Lemos for promotion to professor of natural resources and environment, with tenure, School of Natural Resources and Environment.



Marie Lynn Miranda, Ph.D.
Professor and Dean
School of Natural Resources and Environment

May 2012