

MEGAN L. MELAMED, PHD

— *Scientific Leader Dedicated to Nature and Mankind Thriving on Earth* —

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SCIENTIFIC LEADERSHIP & MANAGEMENT

Accomplished scientific expert recognized for research and contributions in air quality, climate change, and sustainability. Extensive experience managing programs and budgets within scientific portfolio. Well-honed communication and leadership skills to direct strategic mission of scientific organization, effective management of research projects, advocacy of scientific programs, build communities that support advancement of scientific research, and influence and drive change.

CORE STRENGTHS

Strategic Planning & Implementation | Leadership & Facilitation | Fostering Diversity & Inclusion
Program Development & Management | Relationship & Coalition Building | Budget Management | Scientific Research

Bilingual: English, Native and Spanish, Fluent

PROFESSIONAL EXPERIENCE

International Global Atmospheric Chemistry (IGAC) Project, Boulder, CO | 2011 – 2020

University of Colorado/CIRES

Director, IGAC | Global Change and Sustainability Scientist

Lead, set vision, and manage International Project Office facilitating atmospheric chemistry research towards a sustainable world. Manage up to 42 direct/indirect reports and diverse scientific portfolio of 20+ projects, including 11 scientific activities/programs, 6 national/regional networking groups, 2 cross-cutting areas, and IGAC biennial science conference with \$1M budget. Provide leadership to international atmospheric science community in the context of global change. Develop and implement short- and long-term strategic plans to achieve goals and priorities. Define new areas and approaches to support research; identify grants and obtain funding; manage strategic plans and grants; and foster partnerships.

- Secured highest levels of funding since IGAC International Project Office opened in 1990; developed first comprehensive strategic plan with mission, vision, focus areas as well as implementation and communication plans to ensure consistent brand to drive and support funding.
- Raised funding and awarded 15+ grants for \$3.81M+ from NSF, NASA, DOE, European Space Agency, World Meteorological Organizations, Int'l Union of Geodesy and Geophysics and other international organizations.
- Built global relationships, convened, and managed international Scientific Steering Committee with up to 20 established scientist/thought leaders to determine goals and priorities of IGAC.
- Led teams of international scientists to carry out scientific and networking projects that foster community, build capacity, and provide intellectual leadership.
- Boosted awareness of funding needs, projects, research, and goals by organizing and managing up to 15+ events yearly with as many as 150 attendees; organize, present, network, and engage with participants.
- Raised global awareness, supported research projects, inspired change, and strengthened international community of scientists and key stakeholders building and convening IGAC's biennial Science Conference.
 - Doubled attendance: 2010–370 attendees; 2018–746 scientist/attendees representing 46 countries.
 - Increased National and Regional Working Groups from 1 in 2011 to 6 currently; drove growth and international representation in underrepresented regions at conference: Latin America, Africa, and Asia.
 - Raised number of early-career scientist participating in conference 60% by creating, developing, mentoring, and promoting IGAC's Early Career Program.
 - Developed/taught early-career course prior to IGAC's conference for 40 scientists from around the globe.

Executive Officer, IGAC | Continued

- Invited to participate in the American Association for the Advancement of Science (AAAS) Dialogue on Science, Ethics, and Religion (DoSER) program; fostered communications and built bridges between scientific and religious communities.
- Authored and co-authored 17 peer-reviewed journal articles; co-authored 5 international reports on air quality and climate; edited 23 issues of IGAC news magazine.
- Recognized as expert by international scientific community and sought out to serve on Scientific Steering Committee for 2018 IPCC Cities & Climate Change Science Conference.
- Delivered 50+ public presentations on IGAC, air quality, climate change, sustainability research as well as guest teaching presentations and public lectures.

World Resources Institute, Washington, DC | 2017 – 2019

Air Quality Consultant

Brought in and contracted to develop air quality program grounded in current scientific research and knowledge. Serve as subject matter/domain expert, provide expert view, present on new approaches in scientific areas, conduct research, build relationships, and liaison between scientists and WRI.

- Set vision and guided program implementing high standards, strategic plan, and scientific-based foundation to support program goals.
- Built and maintain relationships for WRI with scientists in India, Ethiopia, Brazil, US, and Europe to advance knowledge and remain current on research.
- Achieved WRI's goal of leveraging local scientific knowledge at global offices to implement air quality programs and foster strategic partnership between scientific and practice communities.

RELEVANT POLICY & RESEARCH EXPERIENCE

US Environmental Protections Agency, Washington, DC | 2009 – 2010

American Association for the Advancement of Science

Science and Technology Policy Fellow

- Served as scientific expert for Global Research Program in the National Center for Environmental Research.
- Contributed to an agency Report to Congress on climate change.
- Gained comprehensive knowledge of the US federal government, government processes, and relationships between government agencies and private companies.

Universidad National Autónoma de México, Mexico City, Mexico | 2007 – 2009

National Science Foundation (NSF) International Research Fellow

- Designed and implemented research project on air quality successfully with limited resources.
- Built relationships with scientific and policy leaders in Mexico; overcame language and cultural barriers to work and live in Mexico City successfully.

EDUCATION

Leadership and Management Graduate Certificate — Engineering Management Program, University of Colorado

Doctorate of Philosophy in Environmental Engineering — University of Colorado

Master of Arts in Environmental Engineering — University of Colorado

Bachelor of Arts in Chemistry and Spanish, Graduated: *cum laude* — Colby College