

RESUME OF JAGADISH SHUKLA

ADDRESS:

Professor, George Mason University (GMU)
President, Institute of Global Environment and Society, Inc. (IGES)
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EDUCATION:

Primary School (1953) – Under a banyan tree; village – Mirdha, Ballia, U.P., India
High School (1958) – S.R.S. H.S. School, village – Sheopur, Ballia, U.P., India
B.Sc. (Honors) (1962) – Banaras Hindu University (Physics, Math, Geology)
M.Sc. (1964) – Banaras Hindu University (Geophysics), India
Ph.D. (1971) – Banaras Hindu University (Geophysics), India
Sc.D. (1976) – Massachusetts Institute of Technology (Meteorology), USA

PROFESSIONAL EXPERIENCE:

2003- present Chairman, Climate Dynamics, George Mason University
1994 - present Professor of Earth Sciences and Global Change, George Mason University
1991 - present President, Institute of Global Environment and Society
1984 - 2004 Director, Center for Ocean-Land-Atmosphere Studies
1984 - 1993 Professor, Department of Meteorology, University of Maryland
1979 - 1983 Senior Scientist, NASA/Goddard Space Flight Center
1978 - 1979 Visiting Associate Professor, Massachusetts Institute of Technology
1976 - 1977 Research Associate, Princeton University
1971 - 1976 Research Assistant, Research staff (M.I.T., Princeton)
1965 - 1971 Junior Scientific Officer, Indian Inst. of Tropical Meteor., Pune, India

HONORS AND AWARDS

Rossby Research Medal (Amer. Met. Soc.), 2005
Sir Gilbert Walker Gold Medal, 2001
Associate Fellow, Third World Academy of Sciences, 1996
Fellow, Indian Meteorological Society, 1996
Fellow, American Meteorological Society, 1986
Exceptional Scientific Achievement Medal, NASA, 1982
Exceptional Performance Award, Goddard Space Flight Center, NASA, 1981
Outstanding Contribution to First GARP Global Experiment, 1980
Fulbright Travel Grant, 1971
United National Fellowship, 1967

TEACHING:

As a faculty member at MIT, UMCP and GMU, advisor/co-advisor for Ph.D.thesis of 15 students.

SCIENTIFIC PUBLICATIONS AND LECTURES:

Author/coauthor of about 150 scientific papers and coauthor of about 20 reports
Editor/contributor for 5 books
About 300 seminars, invited lectures and conference presentations

SCIENTIFIC COLLABORATORS: Coauthors of Papers in Refereed Journals

J. Anderson, Atlas, Baker, Bamzai, Bangaru, Baumhefner, Bengtsson, Brankovic, Carton, Chang, Charney, Chen, Das, DeWitt, Dirmeyer, Doty, Estoque, Fennessy, Godbole, Goswami, Gutzler, Hahn, Halem, Herman, Huang, Jiing, , Kalnay, Kinter, Kirtman, Krishnamurthy, Marshall, Marx, Mintz, Misra, Mo, Mooley, Moura, Nigam, C. Nobre, P. Nobre, Palmer, Paolino, Phillips, Ploshay, Randall, K.R.Saha, Sajnani, Sanders, Sato, E.Schneider, Schubert, Sellers, Sethumadhavan, Suryanarayana, Straus, Sud, Suarez, Tribbia, Vernekar, Wallace, P.Webster, Wu, Xue, Yanai, Yang, Yasunari, Zhou, Zhu

SCIENTIFIC COLLABORATORS: Coauthors of Panel and Committee Reports

D. Anderson, Arkin, Austin, Baker, Barnett, Barber, Bengtsson, Blackmon, Boville, Branstator, Brown, F.Bryan, K. Bryan, Busalacchi, Cane, Charney, Chelton, Clark, Dahl, Duplessy, Elachi, Esbensen, Fuguno, Garstag, Gates, Gent, Ghil, Goodrich, Gordon, Halpern, Harrison, Houze, Hudlow, Kiehl, Krishnamurti, Lukas, Mahlman, Manton, Matsuno, McBean, Molinari, Moritz, Murakami, Neelin, Niiler, North, Randall, Rasmusson, Sarachik, Schott, Simpson, Solomon, Spencer, Stommel, Sumi, Suomi, Thiele, Trenberth, Wallace, F. Webster, P. Webster, Weinman, Weller, Wilheit, Young, Zipser

SCIENTIFIC WORKING GROUPS: Joint Modeling Experiments; Committees

AMIP, CLIVAR NEG-1, DSP, ECMWF-ERA, MONEG, NCEP-CDAS, NCAR-CSM, SMIP, TOGA-NEG, TPOP; MONEX, TRMM, TOGA, GOALS, CLIVAR, ACCP, JSC

INSTITUTION BUILDING:

Center for Ocean-Land-Atmosphere Studies (COLA), Calverton, Maryland, USA
National Center for Medium Range Weather Forecasting (NCMRWF), New Delhi, India
Physics of Weather and Climate, ICTP, Trieste, Italy
CPTEC, Brazil, Organizer training of Brazilian scientists at COLA
International Pacific Research Center (IPRC), U. Of Hawaii, Co-author, Initial Science Plan.
International Research Institute for Climate Prediction (IRIPC-IRI), Co-author, Initial Proposal
Gandhi Degree College, Village - Mirdha, Ballia, UP, India
Climate Dynamics Ph.D. Program, George Mason University

RESEARCH GRANTS (Principal Investigator: J. Shukla)

1. Predictability of climate (NSF, NOAA, NASA), 2004-2008; Total Award: \$15,266,000
2. Predictability of weather and climate (Sloan.), 2002-2005; Total Award: \$300,000

NATIONAL/INTERNATIONAL COMMITTEE, PANELS:

Member, 2001-, Joint Scientific Committee (JSC), World Climate Research Program (WCRP)
Member, 2000-2001, Asian Australian Monsoon Working Group, US CLIVAR
Chairman, 1999- 2001, Seasonal-Interannual Modeling Panel (SIMAP), US CLIVAR
Chairman, 2001, International Conference on Monsoons, New Delhi, India
Member, 2001-, Editorial Board, Earth & Planetary Sciences, Indian Academy of Sciences
Member, 1998-2000, Science Steering Committee, Climate Variability, US CLIVAR
Member, 1997-2000, Science Steering Committee, Climate System Modeling (CSM), UCAR
Member, 1995-2000, PAGES/CLIVAR Working Group, WCRP
Member, 1995-1998, TOGA Numerical Experimentation Group (TOGA-NEG), WCRP
Member, 1996-1998, CLIVAR Monsoon Panel, WCRP
Member, 1996-1997, Science Working Group, International Pacific Research Center (IPRC), Hawaii
Member, 1994-1997, U.S. Panel on GOALS, National Research Council (NRC), NAS
Member, 1993-1996, Climate Data Analysis (CDAS), Advisory Committee for NCEP, UCAR
Member, 1991-1995, International Scientific Steering Committee, (CLIVAR), WCRP
Co-chairman, 1994, International Conference on Monsoons, Trieste, Italy
Member, 1992-1994, Atlantic Climate Change Program (ACCP), OGP/NOAA
Chairman, 1992, Steering Committee for Study Conference on GOALS, NRC/NAS
Director, Workshop on Mediterranean Processes, August 1992, Venice, Italy
Scientific Coordinator, 1991-1994, International Institute for Earth, Environmental and Marine Sciences and Technologies (IEM), Trieste, Italy
Member, 1991-1993, GEWEX Panel on Continental Scale Project (GCIP)
Member, 1991-1993, External Advisory Group, ECMWF Reanalysis (ERA)
Member, 1991-1998, Scientific Advisory Committee, Venice Center for Marine Sciences
Director, NATO Advanced Research Workshop (ARW) on Prediction of Interannual Climate Variations, International School for Advanced Studies (ISAS), July 1991, Trieste, Italy.
Chairman, 1989, Organizing Committee, TOGA Ad-hoc, panel meeting on Reanalysis
Chairman, 1989 - 1992, U.S. Panel on Tropical Ocean Global Atmosphere (TOGA), NRC/NAS
Member, 1989 - 1994, International Monsoon Numerical Experimentation Group (MONEG)
Member, 1989 - 2000, Editorial Board, Journal of Indian Meteorological Society, MAUSAM
Scientific Advisor, 1989-1990, National Center for Medium Range Weather Forecasting, India
Member, 1983-1988, U.S. Panel on TOGA (NRC/NAS)
Member, 1984 - 1989, International Scientific Steering Group on TOGA, WCRP
Member, 1987 - 1991, Panel on Dynamical Extended Range Forecasting (DERF), NRC/NAS
Member, 1987 - 1990, Air-Sea Fluxes Working Group, WCRP
Director, Summer school on physical climatology, May-June, 1988, ICTP, Trieste, Italy
Member, 1988 - 1991, Scientific Steering Committee (and co-project leader) for International Center for Earth Sciences (ICE), Trieste, Italy
Member, 1986 - 1990, Computer Steering Committee, Goddard Space Flight Center, NASA
Member, 1986 - 1989, Science Steering Committee for TRMM, NASA
Chairman, 1985, Organizing Committee, Meeting on Interannual Variations of Monsoon (US TOGA)
Member, 1984-1987, Indian Ocean Panel, Committee on Climate Change and Ocean (CCCO)
Program Leader, 1984 - 1990, U.S.-India Science and Technology Initiative (STI) on Monsoon
Member, 1982 - 1985, Climate Research Committee, NRC/NAS
Member, 1982 - 1984, Advisory Board, Equatorial Pacific Ocean Climate Studies, (EPOCS)
Member, 1983 - 1986, Committee on Climate Variations, American Meteor. Soc., (AMS)
Lead Scientist, 1983 - 1983, Global Habitability Program, GSFC/NASA
Member, 1975 - 1983, Panel on Monsoon Experiment (MONEX), NRC/NAS
Chief Scientist, 1977 - 1979, Monsoon Experiment (FGGE/GWE) in Bay of Bengal (NSF)