

ABOUT MEMBERS OF OUR EDITORIAL COMMITTEE*

Foreign Members

Richard A. Anthes (Office of the Director, NCAR, P. O. Box 3000, Boulder, CO 80307-3000, USA)

In 1971, he received his Ph. D. in meteorology from the University of Wisconsin with a Ph. D. thesis on the energetics of hurricanes. In 1981, Dr. Anthes accepted a position as Director of the Atmospheric Analysis and Prediction Division at NCAR. His research interests there were the development of mesoscale numerical models and their use to study the dynamics of mesoscale atmospheric weather systems and their predictability. In September 1986, Dr. Anthes was appointed Director of NCAR.

Dr. Anthes has served on many panels of the National Academy of Sciences; at present he is chair of the Board on Atmospheric Sciences and Climate. In early 1985, he chaired the Research Briefing Panel on Weather Prediction Technologies of the Committee on Science, Engineering, and Public Policy (COSEPUP). He is author or co-author of over 60 reviewed papers in professional journals.

Dr. Anthes is a Fellow of the American Meteorological Society and has served on several AMS committees. In January 1980, he was awarded the AMS Clarence L. Meisinger Award for outstanding research contributions in tropical cyclones. In 1985, he was elected Councilor of the AMS. In 1987 he was awarded the AMS Jule G. Charney Award for "sustained contributions in theoretical and modelling studies related to tropical and mesoscale meteorology." He is author of AMS Monograph No. 41, Tropical Cyclones—Their Evolution, Structure, and Effects (translated into Chinese), and co-author of several textbooks on meteorology.

B. J. Hoskins (Department of Meteorology, University of Reading, 2 Earley Gate, Whiteknights, P. O. Box 239, Reading RG6 2AU, UK)

In 1970, he received Ph. D in mathematics from the University of Cambridge. During 1972—1973 he worked at GFDL, Princeton as a visiting scientist. Since 1973 and 1981, he has been the leader of the Atmospheric Modelling Group and the professor of meteorology, University of Reading, respectively. Prof. Hoskins won the following awards: L. F. Richardson Prize in 1972 and Buchan Prize in 1976, from Royal Meteorological Society, Charles Chree Silver Medal from Institute of Physics in 1987 and Carl-Gustaf Rossby Research Medal from American Meteorological Society in 1988. His international activities include: 1983—1987, President of the Dynamical Commission of IAMAP; 1985—date, Chairman of the Scientific Advisory Committee of the European Centre for Medium Range Weather Forecasts; 1986—date, member of the Academic Committee of the Laboratory for Numerical Modelling of the Atmospheric Sciences and Geophysical Fluid Dynamics, Academia Sinica; and 1983—date, Associate editor of Journal of the Atmospheric

* This is the second part of introduction to our members, the first part appeared in the last issue.

Sciences. He is a Fellow of the American Meteorological Society, also the member of Meteorological Research Subcommittee of the UK Meteorology Committee and Vice-Chairman of the UK Committee for the Anglo-French Mesoscale Frontal Dynamics Project. He published 56 articles in refereed journals and books, including "Large-Scale Dynamic Processes in the Atmosphere" (as one of authors, translated into Chinese).

Peter R. Jonas (Meteorological Office, London Road, Bracknell, Berkshire RG12 2SZ, UK)

He was awarded the degree of Ph. D. in 1968 by Imperial College, London for work on the electrification of breaking drops. Since leaving Imperial College his career in the Meteorological Office at Bracknell has largely been directed to cloud physics research. His early work was concerned with the growth of cloud droplets including both laboratory experiments and numerical modelling of growth by coalescence in turbulent clouds.

The research work of Dr. Jonas has also included larger scale aspects of meteorology. Methods of improving humidity analyses and the representation of rainfall producing processes in numerical weather prediction models have been developed.

His present research activities include the use of instrumented aircraft data to examine the interaction between cumulus clouds and their detailed structure, areas in which numerical cloud models are also being used to interpret the observations. The relationship between large drop growth and cloud structure is also being examined using aircraft data. He is responsible for the United Kingdom contribution to observational programme for the Mesoscale Frontal Dynamics Project, a joint UK/French/German project.

Dr. Jonas is presently Editor of the Quarterly Journal of the Royal Meteorological Society, a joint secretary of the International Commission on Cloud Physics and a member of the Scientific Programme Committee for the 1988 International Cloud Physics Conference and of the WMO Panel on Cloud Physics and Weather Modification.

Show C. Liu (Aeronomy Laboratory/ERL, NOAA, Boulder, CO 80303, USA)

In 1972 he received his Ph. D. in physics from the University of Pittsburgh. During 1973–1974, Dr. Liu as a Research Associate worked there. During 1974–1977, he worked at the Space Physics Research Laboratory, University of Michigan as an Assistant Research Scientist and later as an Associate Research Scientist. As a visiting scientist he worked at Climate Sensitivity Group, NCAR for about two years.

Dr. Liu joined NOAA in 1978 as a Research Physicist of Aeronomy. Since 1980, he has been the Program Chief responsible for theoretical aeronomy. His major research area is atmospheric chemistry with emphasis on the tropospheric chemistry. This includes global background tropospheric chemistry, regional and rural air pollution, biosphere-atmosphere interactions, the evolution of planetary atmospheres, and the climatic effects due to trace gases. In the past, he has also worked on the chemistry of the stratosphere, the mesosphere, and the thermosphere of the earth, and the upper atmospheres of Venus and Mars.

He is author or co-author of about 50 reviewed papers in professional journals, and is Editor in Chief of Journal of Geophysical Research for 1988–1991. Dr. Liu won the NOAA ERL Outstanding Paper Award in 1981.

Jerry D. Mahlman (Geophysical Fluid Dynamics Laboratory, Princeton University, P. O. Box 308, Princeton, NJ 08542, USA)

He received the Ph. D. from Colorado State University in 1967. In 1970, Dr. Mahlman came to GFDL, NOAA, and worked there as Research Meteorologist during 1970—1978, and as a Senior Research Meteorologist during 1978—1984. Since 1984, he has been the Director of GFDL. Dr. Mahlman is a Fellow of American Meteorological Society for “outstanding contributions to the science or application of meteorology, climatology, or other areas of atmospheric science over a period of years” and of American Geophysical Union for “his pioneering research and active leadership in studies of dynamics and chemistry of the middle atmosphere”, the Lifetime Member of Lambda Delta Lambda (Physical Science Honorary), of Phi Kappa Phi (National Scholastic Honorary), and of Sigma Delta Nu (Honorary Education), as well as the Member of Blue Key National Honor Society and Sigma Xi.

Prof. Mahlman has served on many professional committees. In 1978, he was awarded the AMS Editor's Award for “his thought and authoritative reviews of manuscripts submitted to both the Journal of the Atmospheric Sciences and Meteorological Monographs”. In 1980 and 1981, he was awarded the Distinguished Authorship Award from NOAA Environmental Research Laboratories with the papers entitled “Trace Simulation Using a Global General Circulation Model: Results from a Midlatitude Instantaneous Source Experiment” and “On the Origin of Tropospheric Ozone”, respectively. In recent years, due to his special contributions, sustained performance, outstanding service, and pioneering research and active leadership, he received the Certificate of Commendation from Department of Transportation, Federal Aviation Administration in 1982, NOAA Certificate of Recognition in 1983, Distinguished Service Award from Chadron State College in 1984, and Department of Commerce Gold Medal in 1986.

Ehrhard Raschke (Institute of Geophysics and Meteorology, University of Cologne, Cologne, FRG)

He received M.S. degree in Geophysics (1954—1961, Freiburg and Mainz) on a scientific experiment and Ph. D. in Meteorology (1965 in Munich: Evaluations of TIROS II and III Radiation Measurements on Atmospheric Water Vapor Content); then worked as Postdoctoral Resident Research Associate of the NSF-N.A.S. at NASA's Goddard Space Flight Center in Greenbelt, Md. during 1967—1968; and Research Assistant at University of Bochum, Habilitation or Venia Legendi for Physics of the Atmosphere during 1968—1973. Since 1973, Dr. Raschke has been the Chairman of Meteorology at University of Cologne.

Present research areas are associated with the earth's radiation budget (ERBE—principal investigator; construction of an airborne multispectral radiometer for measurements of reflected and emitted radiation; sampling studies for interpretations of satellite data), cloud radiation interactions (simulations in GMC's, ISCCP algorithms for cloud detection over polar regions), surface radiation budget and available solar energy (analyses of METEOSAT and GMS data), and theoretical radiative transfer studies. Further research is related to urban problems and transport of pollutants causing forest diseases.

Prof. Raschke is the member of professional societies (DMG, AMS, RMS, AGU) and of the JSC Working Group on Radiation Fluxes; Chairman of COSPAR Subcommission A-1 (The Contribution of Space Observation to the World Climate Research Programme

and Global Change Programme) and IUGG Representative to COSPAR.

Robert J. Serafin (Atmospheric Technology Division, NCAR, P. O. Box 3000, Boulder, CO 80307-3000, USA)

He received Ph. D. in electrical engineering from Illinois Institute of Technology (IIT) in 1972, and joined NCAR in 1973 as Manager of the Field Observing Facility. In this capacity, he was responsible for the development of new transportable Doppler radar system for use in a variety of research programs in the United States. Other facilities developed were a Portable Automated Mesonetwork (PAM) for automatic reporting of surface meteorological variables. The first real-time color Doppler radar displays and interpretive techniques for their use were also developed.

As Director of the Atmospheric Technology Division at NCAR, he is responsible for the management and development of instrumented research aircraft involving both in-situ and remote sensing devices, surface-based Doppler and multiparameter radar systems, surface-based automated networks, and both in-situ and remote-sensing tropospheric sounding devices.

Dr. Serafin's personal research interests include the development of new observing systems and techniques, in collaboration with scientists at NCAR and elsewhere. He is also interested in nowcasting of mesoscale phenomena using these techniques. Dr. Serafin serves as the Co-Chief Editor of the Journal of Atmospheric and Oceanic Technology and has served on a number of National Academy of Sciences panel studies related to observational systems and nowcasting. He has also served on a variety of other national committees related to the planning and design of major research efforts in the United States, including the Genesis of Atlantic Lows Experiment (GALE) and the Stormscale Operational and Research Meteorology (STORM) Program.

Dr. Serafin has published approximately 50 technical and scientific papers and holds three patents. He is a member of the American Meteorological Society, the Institute of Electrical and Electronics Engineers, and the Society of the Sigma Xi.

Gilbert Brian Tucker (Commonwealth Scientific and Industrial Research Organization Division of Atmospheric Research, Aspendale Vic, Australia)

Dr. Tucker is Chief of the CSIRO Division of Atmospheric Research. He has a very wide experience in meteorology on the national and international scene. He came to Australia from the British Meteorological Office in 1965 to be Assistant Director of the Bureau of Meteorology, responsible for Research and Development. He then moved to CSIRO to head a new computer modelling group comprising CSIRO and Bureau staff, which was later named ANMRC. Since 1972 he has been Chief of Division, first of Atmospheric Physics and, in 1982, of Atmospheric Research (a combination of the Divisions of Atmospheric Physics and Cloud Physics together with the CSIRO component of the computer modelling group).

Dr. Tucker has extensive experience in a wide range of meteorological activities in the national and international scene. He has a particular interest in the causes of drought, the effects of increasing levels of carbon monoxide and other trace gases on Australia's future climate, and general problems involving transport and dispersion of pollutants in the

atmosphere. He is author of the Australian Academy of Science monograph entitled "The CO₂—Climate Question".

From 1974—1980 Dr. Tucker was a member of JOC/GARP and was Vice-Chairman in 1979/1980 during the 1st GARP Global Experiment. In 1987 he was elected as President of the IAMAP. He is interested also in aviation meteorology and holds a current private pilot's licence.

John M. Wallace (Department of Atmospheric Sciences, AK-40, University of Washington, Seattle, WA 98195, USA)

He received a Ph. D. degree in Meteorology from M.I.T. in 1966. Since 1966 he has been a member of the faculty of the Department of Atmospheric Sciences at the University of Washington, in Seattle. He is currently serving a term as department Chairman and as Director of the Joint Institute for the Study of the Atmosphere and Ocean. He teaches regularly and supervises several graduate students in their research.

His research interests include a wide range of topics in large-scale atmospheric dynamics, including low-frequency dynamics, atmosphere-ocean interaction, and the maintenance of the general circulation. His published works include a graduate level survey textbook with Peter V. Hobbs, entitled "Atmospheric Science—An Introductory Survey" (translated into Chinese).

Prof. Wallace is a Fellow of American Meteorological Society and American Geophysical Union. The other professional activities he has participated in include: University Corporation for Atmospheric Research, Trustee, 1979—1983, Members Representative, 1983—present; U.S. TOGA Program Advisory Panel (National Academy of Sciences), Chairman, 1983—present; and Dynamical Extended Range Forecasting Panel (National Academy of Sciences), Chairman, 1986—present.

He won many awards for his outstanding work, such as James B. Macelwane Award from American Geophysical Union in 1972, Alfred P. Sloan Fellowship of 1973—1975, Meisinger Award from American Meteorological Society in 1975, Editor's Award from American Meteorological Society in 1981, Lindsay Memorial Lecture from NASA in 1983, and National Science Foundation Creativity Award in 1987.

Wei-Chyung Wang (Atmospheric and Environmental Research, Inc., 840 Memorial Drive, Cambridge, MA 02139 USA)

He received D. Eng. Sc. from Columbia University in 1973. Since 1980 and 1986, He has been Manager, Climate Programs, AER and Vice-President of the Research, respectively. At AER in addition to directing the climate study group, Dr. Wang is responsible for coordinating and directing interdisciplinary research activities and participates in exploring and assessing capabilities within the company that may further broaden AER's research base. His research interests cover trace gases climate-chemistry interactions, analysis of climate data and general circulation model simulations to study regional climate and climate changes, and long-term weather forecasting. Dr. Wang is the participant in various workshops organized by NASA, WMO, AFGL, NSF, and DOE on earth radiation budget, atmospheric transmittance, climatic effects of trace gases, aerosols, and clouds, and

referee for scientific journals JAS, JAM, Tellus, Climatic changes, Science, JGR, and for federal agencies NASA, NSF, DOE. He is also a member of American Geophysical Union, of American Meteorological Society, and of Sigma Xi. In 1987 he was awarded by Certificate of Appreciation, Basic Energy Sciences/Office of Energy Research, Department of Energy, for his invaluable contribution to the scientist-to-scientist collaborative Carbon Dioxide Climate Research Program of the United States Department of Energy and the People's Republic of China's Academy of Sciences, for sustaining his high scientific productivity while providing intellectual leadership to both the U.S. and Chinese scientists, and for the generosity with which he gave his expert counsel.

Michio Yanai (Department of Atmospheric Sciences, University of California, Los Angeles, CA90024, USA)

He received a D.Sc. degree in geophysics from University of Tokyo in 1961. During 1961—1965, Dr. Yanai as a Research Meteorologist worked at Meteorological Research Institute, Japan Meteorological Agency; and in the period of 1965—1970, he worked at Geophysical Institute, University of Tokyo as an Assistant Professor. Since 1971, Dr. Yanai has been the Professor in the Department of Atmospheric Sciences, University of California.

His research interests include tropical Meteorology, large-scale wave disturbances and cumulus parameterization with emphasis on typhoon, Asian monsoon, and heat sources and sinks. He is author or co-author of about 40 reviewed papers in professional journals.

Prof. Yanai is a Fellow of American Meteorological Society, and also a Member of American Geophysical Union, of the Meteorological Society of Japan, of the Royal Meteorological Society and of Sigma Xi. He has participated many professional activities and has served on many professional Committees such as the Member of Working Group B (Cloud Dynamics), International Commission on Dynamic Meteorology, IAMPAS during 1978—1982. He won awards for his outstanding work, such as Meteorological Society of Japan Award in 1962 and Jule G. Charney Award from American Meteorological Society in 1986.