

National Science Foundation's Geospace Environment Modeling (GEM) programme. During the period May 2018-May 2021 Dr. Nykyri served as an associate dean of research and graduate programmes at ERAU. She also served as the space physics programme coordinator in ERAU between 2015-2017 and has served as a director for space weather at the ERAU Center for Space and Atmospheric Research since 2017. Dr. Nykyri was also a member of the National Academies committee to perform midterm assessment of the Heliophysics Decadal survey in the USA in 2018-2019.

Duggirala Pallamraju—Vice-Chair, Commission C: Space Studies of the Upper Atmospheres of the Earth and Planets Including Reference Atmosphere



Professor Duggirala Pallamraju currently holds the position of Senior Professor in Space Physics at the Physical Research Laboratory (PRL) in Ahmedabad, India. He obtained his PhD from PRL in 1996. After a one-year stint as a post-doctoral Fellow at PRL he worked at the Center for Space Physics in Boston University, USA, as a senior research associate for over 10 years wherein he was the Principal Investigator (PI) or a Co-PI on several NASA- and NSF-funded projects.

Some of his scientific interests include space weather effects on geospace, vertical coupling of atmospheres, upper atmospheric wave dynamics, plasma-neutral interactions during geomagnetic storms, and exploration of new methods of investigations of upper atmospheric dynamics. He specializes in daytime

optical techniques, some of which he successfully used to carry out experiments from low-, mid-, and high-latitudes for the investigations of various processes in the upper atmosphere.

He was part of the scientific team of the 13th Indian expedition to Antarctica in 1993-1994 during which he carried out daytime optical investigations of Aurora Australis. He also carried out experiments from the Arctic (Greenland) for the investigations of space weather effects on the Earth's upper atmosphere over polar regions in the daytime.

He has served in various capacities of major international programmes, such as Scientific Coordinator for the Climate and Weather of the Sun-Earth System (CAWSES) (2004-2008), a Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) programme, was a member of Task Group 4 on What is the geospace response to variable waves from the lower atmosphere? (2009-2012). He is one of the group leaders of the ROSMIC (Role of the Sun and the Middle atmosphere/ thermosphere/ionosphere In Climate) project of the VarSITI (Variability of the Sun and Its Terrestrial Impacts) programme (2013-2019), and is Co-leader for the Pillar-2 (Space Weather and Atmosphere) of SCOSTEP's new programme, PRESTO (Predictability of the variable solar-terrestrial coupling) (2020-2024). He also served as the Science Discipline Representative to SCOSTEP (2011-2020). He has been elected twice as the Scientific Secretary for the Solar Terrestrial (ST) Section of the Asia Oceania Geosciences Society (AOGS) (2011-2017).

He has served as a member of NASA Peer Review panels, and in various capacities in the national programmes of India, which include, Coordinator of Theme 2 (on Space Weather and Climate: Science and Applications) of CAWSES-India Phase II programme, member of the CAWSES National Steering Committee (CNCS), is a member of the science steering committee of Solar-Terrestrial Atmospheric Research Programme (STARP), and chair of the aeronomy satellite study team. He is the member secretary, on the Board of Studies for

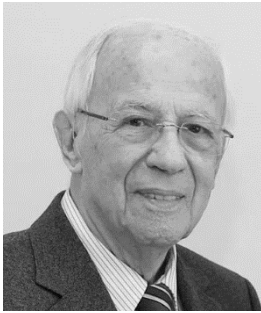
the space and atmospheric sciences course of the Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP), affiliated to the United Nations.

He has served as an editor of the journal *Earth, Planets and Space* since 2017 and of the *Indian Journal of Radio and Space Physics* since 2015. On several occasions he was guest editor or managing guest editor for the *Journal of Atmospheric and Solar Terrestrial Physics*, and *Annales Geophysics*.

Prof. Pallamraju has been recently elected as the Vice-Chair of COSPAR Commission C of (2021-2024). At present, he serves as the Chair of the Space and Atmospheric Sciences Division at PRL. He is also the dean of PRL.

In Memoriam

Siegfried J. Bauer (1930-2021)



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We are deeply saddened by the news that Professor Emeritus Dr. Siegfried J. Bauer, aged 91, passed away peacefully at his home in Graz, Austria on 19 September 2021.

Siegfried (for his American friends, in short, just Sig) Bauer was born on 13 September 1930 in Klagenfurt, Austria, and grew up in nearby Griffen in the southernmost Austrian province of Carinthia. After grammar school in Griffen and secondary boarding school at the Abbey St. Paul/ Lavanttal he earned his PhD in physics, geophysics and meteorology with a dissertation on experimental ionospheric radio measurement techniques with Prof. Otto Burkard at the University of Graz in 1953.

Shortly after graduation he joined the US Army Signal Corps Research and Development Laboratory in Fort Monmouth, New Jersey, to work on weather radar and sferics. After one year in the US he returned to Austria to prepare for a longer stay there. He married his girlfriend Inge and together they returned to the US, where he resumed his work at the Army Laboratory, this time performing research with the Diana moon radar.

After six years at the military laboratory he joined the then recently-established NASA Goddard Space Flight Center (GSFC), in 1961, where for the first four years he worked on sounding rocket campaigns mainly from Wallops Island, Virginia, and on preparations for the Canadian Alouette Topside Sounder. In 1965 he was promoted to head of the Planetary Ionospheres Branch (later renamed Ionospheric and Radio Physics Branch) and in 1970 to Associate Chief of the Laboratory for Planetary Atmospheres. During this time his research encompassed also the German *Aeros 1* and 2 satellites launched in 1972 and 1974, respectively. From 1975 to 1981 he served as Associate Director of Sciences at GSFC and his research interests shifted to the upper atmosphere of Venus investigated by the Pioneer Venus mission.

In September 1981 he succeeded his doctoral thesis adviser Prof. Otto Burkard as Professor of Meteorology and Geophysics at the University of Graz (a chair held by Alfred Wegener in the 1920s), where he educated geophysics/ physics students in the field of space sciences/ geophysics/ meteorology until his retirement in 1998. From 1985 to 1987 he was dean, and from 1987 to 1989 vice dean of the natural sciences faculty of the university.

In addition to his university role he was head of the department of physics of near-Earth space at the Space Research Institute of the Austrian Academy of Sciences in Graz (1982 to 1998) and its Vice Director. Between 1983 and 1990 he served in several advisory committees for the European Space Agency, as Austrian delegate to URSI, and long-time Austrian National