



---

PROF. Carmine Serio

---

SCIENTIFIC CURRICULUM VITAE:

Prof. Dr Carmine Serio received his doctorate in Physics with honor in 1978 from University of Napoli (Italy). He was appointed assistant professor in 1984 by University of Napoli and after 16 years of distinguished academic career in 2000 he became Full Professor of Experimental Physics. At present he teaches and works at the School of Engineering, University of Basilicata (Italy), where he moved in 1992. In 1998 he founded the Applied Spectroscopy group, which he is still leading (<http://www2.unibas.it/gmasiello/assite/as/home.html>). Since 1990 Carmine Serio has been performing research in the field of Fourier Spectroscopy, methods and experimental techniques, applied to the study of Environment, Earth Atmosphere, land processes and remote sensing of atmospheric and surface parameters. His experience about Fourier transform infrared spectrometers or FTIR instruments includes ground-based, airborne and satellite platforms. Because of his expertise, he is currently member of ESA (European Space Agency)/CNES (France Space Agency)/EUMETSAT (European Centre for the Exploitation of Meteorological Satellites) teams for the design, development and remote sensing applications of FTIR from polar and geostationary Space platforms. These include the ISSWG-2 (IASI Next Generation Sounding Science Working Group) team ([http://smc.cnes.fr/IASI/A\\_doc\\_isswg.htm](http://smc.cnes.fr/IASI/A_doc_isswg.htm)) and the MTG-IRS (Meteosat Third Generation Infrared Sounder mission) team.. Dr C. Serio has been involved with Space borne FTIR technology and related observations almost as long as they have been around. He has actively contributed to Space projects and missions such as

- NASA-AIRS project, NASDA-IMG project (NASDA is the Japanese Space Agency ), EUMETSAT/CNES IASI project , ESA/EUMETSAT GERB project, ESA SWIFT project, EUMETSAT/ESA Post-EPS (European Polar System).

International achievements: Dr C. Serio has been member (2000-2004) and then Secretary (2004-2008) of IRC (International Radiation Commission, <http://www.irc-iamas.org/>) of IAMAS (International Association of Meteorology and Atmospheric Sciences). He served as chairman, co-chairman and member of the Scientific Committee of EOS/SPIE (European Optical Society/The International Society for Optical Engineering) Symposium, Conference on Remote Sensing of Clouds and the Atmosphere. Dr C. Serio is OSA member; EGU (European Geophysical Union) member; permanent member of ITWG. (<http://cimss.ssec.wisc.edu/itwg/>). During his career, Dr C. Serio has received numerous grants and projects that have supported various part of his environmental and atmosphere physics and optics work, including National Ministry of Education and Research (MIUR), National Research Council (CNR), Italian Space Agency, European Union (EU), ESA, CNES and EUMETSAT. Dr C. Serio has published more than 200 papers in the scientific literature.

---

PROFESSOR'S OFFICE HOUR:

Monday: 3pm to 5 pm, Wednesday, 11 am to 1 pm

Address: Macchia Romana Campus, School of Engineering, Building V, room 46

---

E-MAIL: [carmine.serio@unibas.it](mailto:carmine.serio@unibas.it)

---

WEBSITE: [https://www.researchgate.net/profile/Carmine\\_Serio](https://www.researchgate.net/profile/Carmine_Serio)

---

TELEPHONE: +39097120522

---

CURRICULUM SCIENTIFICO:

Professore ordinario di Fisica Sperimentale, dirige il gruppo di Spettroscopia Applicata, leader nello sviluppo di modelli fisico-matematici di trasferimento radiativo linea-per-linea e nel campo di strumenti & scienza della Spettroscopia di Fourier applicata all'osservazione dell'atmosfera terrestre dallo Spazio. Negli ultimi anni ha lavorato su problematiche quali: a) Spettroscopia nell'infrarosso termico e lontano infrarosso, sviluppo di modelli matematici di trasferimento radiativo in atmosfera terrestre, in presenza di componenti gassosi; b) Supporto scientifico allo sviluppo di strumenti qualificati per missioni spaziali: radiometri e spettrometri di Fourier; c) Tecniche e metodi per l'utilizzo di strumentazione corrente e futura da satellite, nei settori della Meteorologia e Climatologia. E' stato ed è tuttora membro di Science teams organizzati dalle varie Agenzie Spaziali: NASA, NASDA, CNES, ESA, EUMETSAT. Ha pubblicato oltre 200 articoli su riviste internazionali e atti di Congressi Nazionali ed Internazionali. E' membro della Optical Society of America (OSA), è stato prima membro e poi segretario della International Radiation Commission per il periodo 2000-2008.

---



Università degli Studi della Basilicata  
**Scuola di Ingegneria**



Scuola di Ingegneria – Viale dell’Ateneo Lucano, 10 – 85100 Potenza

<http://ingegneria.unibas.it> - e-mail: [scuolaingegneria.segreteria@unibas.it](mailto:scuolaingegneria.segreteria@unibas.it) - tel 0971.205032/33 - fax (+39)0971 22115