

## Rino Russo, Bio & Publications

### Rino Russo, Ph.D



**Dr Gennaro Russo** has a PhD in aerospace engineering and specializes in fluid dynamics, hypersonics, re-entry and space transportation. He has over 25 years of experience with unmanned space systems. He is a lecturer for the Masters Degree in Space Transportation Systems and Satellites and Space Platforms at the University La Sapienza, Rome.

From 2002 to 2012 he was the manager of CIRA (Centro Italiano Ricerche Aerospaziali) dedicated to space. In particular, he served as head of President's Office for Institutional Relations Development, Head of the Space System Div, Head of Space Labs & Facilities Division including the 70MW Plasma Wind Tunnel SCIROCCO, Head of the Space Programs Management Division, Program Manager of the USV (Unmanned Space Vehicles Program and Director of USV Drop Trans- and Supersonic Flight Tests campaigns.

From 1988 to 2001, he was an employee of CIRA (Centro Italiano Ricerche Aerospaziali), serving as Head of the Space Activities and Technology, International Relations, Strategic Marketing, Project Manager of the program CRYO, concerning the realization of a facility to test and qualify the liquid oxygen turbo-pumps (LOx-TP) of the space launchers' engines of the ARIANE V class, Head of the Aerothermodynamics Dept. He has been responsible of the activities carried out in the frame of MSTP (Manned Space Transportation Program) and FESTIP (Future European Space Transportation Investigation Program) under ESA related contracts, Member of the CIRA Research Coordination Committee, Member of the CIRA Computational Labs Managing Committee, Program Manager of the Hypersonics/Hermes related activities. He has been in charge of coordination and scientific responsibility of Italian Fluiddynamic Studies within the ESA Hermes R&D Preparatory Program, and of the program "Atmospheric Re-entry Aerothermodynamics" funded by the Italian Space Agency (ASI).

From 1981 to 1987, he was a fellow of the Institute of Aerodynamics "U. Nobile" (IAUN), University of Naples and served as IAUN-side Project Manager for the definition and design of the Microgravity Advanced Research and Support (MARS) Centre, as part of the ground segment of the European Space Station COLUMBUS, and a member of the team that proposed, designed, tested, controlled and analyzed experiments performed on board the missions FSLP (1983) and D1 (1985) of the SHUTTLE/SPACELAB program.

He is the author of more than 100 papers presented at national/international congresses and/or published by international journals mainly in the fields of Microgravity, Fluidynamics, Supersonics, Hypersonics, Wind Tunnel Design, Space Related Testing Facilities, Reusable Launch Vehicles, Re-entry Technologies, Tethered Systems. He is or has been member of the International Academy of Astronautics, the International Astronautical Federation committees on Commercial Human Spaceflight Safety, Space Societies, Space Exploration, Space Transportation, Space Propulsion, Student Activities. He also member of Launchers Program Board of ESA, Association of European Research Establishments in Aerospace (EREA), Chairman of the SCG (Strategy and Coordination Group) of EREA, Manned Spaceflight Program Advisory Committee, FDP-WG-18 of AGARD, Centre for Low Gravity Fluid Mechanics and Transport Phenomena) of the University of Colorado (USA).

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