

RESUME

Name: Alberto F. Martín Ghiselli

Birth date: June 05, 1962

ACADEMIC

- Degree on Aeronautical Engineering (Universidad Tecnológica Nacional – Facultad Regional Haedo, 1987).
- Posgraduate on Nuclear Engineering (Universidad de Buenos Aires, Facultad de Ingeniería – CNEA, 1988).
- Vibration Analyst Category IV - ISO 18436-2 (Universidad de Concepción, República de Chile, 2008).

WORK HISTORY

1989 – 2003, Engineer in the test development and analysis area, EECE Division, CNEA.

- Monitoring, analysis and evaluation of vibrations in the primary circuit of nuclear power plants.
- Analysis of vibrations induced by fluids and wear in fuel elements of nuclear power plants and in tubes of heat exchangers.
- Development, planning, execution and evaluation of design verification tests for fuel elements for nuclear power plants and research reactors.

2002 – 2021, Head of the ARAS Project (Synthetic Aperture Radar Antenna) within the framework of the CNEA-CONAE agreement for the development of the satellites for the SAOCOM Project.

- Definition of the functional organization for the ARAS Project, the human resources, the infrastructure and of the equipment required by it, in the stages of Development, Qualification and Acceptance of the SAR Antenna for the SAOCOM Project.
- Preparation, execution and control of the budgets and economic resources assigned to the ARAS Project.
- Direction and coordination of technical and institutional communications between the ARAS Project and the direction of the SAOCOM Project at CONAE.
- Preparation, monitoring and control of the Work Plans for the Development, Qualification and Acceptance stages of the SAR Antenna for the SAOCOM Project.
- Preparation, monitoring and control of the Development Plans for the different Subsystems and Components for the SAR Antenna.
- Preparation, monitoring and control of the Supply Plans and requirements for materials and components for the development and manufacture for the SAR Antenna.
- Preparation of the General Requirements and Design Requirements for the SAR Antenna.
- Preparation and monitoring of the SAR Antenna Mass Budget Document, the SAR Antenna Mechanical Interface Control Document and the SAR Antenna Configuration Status Document.
- Preparation of reports, presentations and responses to requirements about the SAR Antenna Project for the PDR, dPDR, CDR and QR reviews of the SAOCOM Project at CONAE.
- Participation in MQR, MAR, PSR and FRR meetings to review the SAOCOM Project at CONAE.

2022, Head of the Structural Components Study and Testing Division, ENDE Department, CNEA.

- Development, execution and evaluation of vibration tests on tubes of heat exchangers, steam generators and components of nuclear power plants.
- Development of tests and analysis for the seismic qualification of equipment and components for nuclear power plants.

AWARDS

- 2020 Technological Innovation Award from the National Academy of Physical and Natural Sciences, Buenos Aires, Argentina, for the Synthetic Aperture Radar Antenna Project.
- 2023 Konex Award for his work in Technological development in the last decade (2013-2022)

PAPERS AND PUBLICATIONS (not complete)

- Acceleration Monitoring on Fuel Channels at the Atucha-I NPP. Smirt 13 Post Conference Seminar 2, 1995, Puerto Iguazú, Argentina.
- Vibration Monitoring for the Atucha I NPP Reactor Vessel: Experience and Future Improvements. Smirt 13 Post Conference Seminar 2, 1995, Puerto Iguazú, Argentina.
- Experimental Studies of the Dynamical Behaviour of an Steam Generator U-Tube. SEM VIII International Congress on Experimental Mechanics, 1996, Nashville, USA.
- Vibration Tests of a 19 Plate Fuel Assembly. ASME Pressure Vessel and Piping Conference, 1996, Montreal, Canadá.
- Vibration monitoring of the Atucha-I NPP reactor vessel: experience and future improvements. Nuclear Engineering and Design 183 (1998) Pages 21-28.
- Hydraulic and Hydrodynamic Test for Design Evaluation of Research Reactors Fuel Elements. IAEA Reduced Enrichment for Research and Test Reactors, 2002, San Carlos de Bariloche, Argentina.
- Analytical and Experimental Flow-Induced Vibration Analysis of a Shell and Tube Cooling Water Heat Exchanger. 5th FSI, AE & FIV+N International Symposium on Fluid-Structure Interactions, Aeroelasticity, Flow-Induced Vibration & Noise, 2002, New Orleans, USA.
- The Use of a Low Pressure Test Facility for the CAREM Reactor Fuel Element Design Verification. IAEA Technical Meeting on Fuel Assembly Structural Behaviour, 2004, Caradache, France.
- CARA Fuel Assembly Development. IAEA Technical Meeting on Fuel Assembly Structural Behaviour, 2004, Caradache, France.
- Seismic Qualification Tests on Nuclear Components. IAEA Workshop on Maintaining EQ during plant operation, 2016, Lima, Argentina.
- The Synthetic Aperture Radar Antenna Project at CNEA. AATN Annual Meeting, 2016, Buenos Aires, Argentina.
- Seismic Qualification Test on Nuclear Components. IAEA Workshop on Methodology of EQ for Harsh Environment and Seismic Impacts, 2018, Buenos Aires, Argentina.
- Development of space structures, management and innovation in the project of a SAR antenna. Seminar of the Argentine Institute of Oil and Gas, Buenos Aires, 2021.
- Design and Qualification of a Restrain-Release Mechanism for a 600 kg Deployable Panels Array. 46th Aerospace Mechanism Symposium, 2022, Houston, USA.
- Flatness adjustment in the design and integration of a 35 m² space deployable SAR Antenna. 46th Aerospace Mechanism Symposium, 2022, Houston, USA.

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