



Dr. Juan Francisco Facetti

Born in Asuncion, Paraguay, on September 30th, 1965.

Married to: Fabiana Rocholl Givogre

ACADEMIC BACKGROUND

- Diploma in Negotiation for Sustainability– Institute for Consensus Building (The Netherlands-USA, 1997)
- Master in Strategic Planning and Development – Strategic Studies Institute (Paraguay, 1995)
- Fellow Marie Curie Program (EU). Post doctorate in Environmental Chemistry – University of Antwerp (Belgium, 1994)
- Maitrise es Sciences de l' Environnement – University of Liège (Belgium, 1992) • Specialization in Nuclear Analytical Techniques – University of Antwerp (Belgium, 1991) • Doctor in Biochemistry (Valedictorian) – National University of Asuncion (Paraguay, 1990)

WORK EXPERIENCE

As Civil Servant

Prof. Facetti has been President of the National Institute of Technology and Standards (INTN) from 1996 to 1997, and head of the Paraguayan Negotiation Group at the SGT-3 Technical Standards- MERCOSUR.

He was the first Minister-Secretary of the Ministry of the Environment and author of its legal framework. Main negotiator of the MERCOSUR Environmental Protocol and several programs for the conservation of the Pilcomayo Basin and Guarani Aquifer.

He has also been advisor to the Vice President from 2003 to 2007 in sustainable policies and nuclear policies, being the principal Paraguayan negotiator at the diplomatic conference for the Amendment of the Convention of the Physical Protection of Nuclear Materials (A/CPPNM). Led the team that prepared the Zero Deforestation Law (approved by the Paraguayan congress). Through the application of this law, the government reduced the deforestation of the Atlantic Forest by 88% in just one year.

Minister of Foreign Affairs between 2013 and 2015 (in nuclear conventions and treaties). Author of the National Nuclear Law (approved in 2014). Prof. Facetti was also the National Defense Council's Director General for Science and Technology between 2012 and 2013, and a nuclear security, science and technology advisor between 2015 and 2018. From May 2019 is the Ambassador of Paraguay to Austria and Permanent Representative to United Nations and other International Organizations based in Vienna.

EXPERIENCE IN MULTILATERAL ORGANIZATIONS

As diplomat he was Chief of the Organization of American States's Governance Programme in Haiti, Special Mission for Strengthening Democracy in Haiti (2002, 2003). Directing the Portfolio of Governance. Preparing the budget, monitoring the performance, development of the monitoring and evaluation system and ensuring efficient/effective management of the technical co-operation (TC). Coordination with the Bayeurs de Fonds for the improvement of the Portfolio Budget.

He was advisor to the Ministers of Environment or Sustainable Development of different Latin American states: Ecuador (2007), Bolivia (2006, 2007), Uruguay (2009-2010) and El Salvador 2003 and 2007.

As expert he was member of the IAEA's Waste Safety Standards Advisory Committee (WASSAC, 2005-2007), advisor to the IAEA's Director General and member of the Advisory Security Committee (ADVSEC, 2007-2009), and has been designated Vice President of the IAEA's Nuclear Security Guidance Committee (NSGC) for the 2018-2020 term.

PROFESSOR – RESEARCHER

Professional experience: research in freshwater and aquifer pollution, limnology, feline conflicts with cattle in the Paraguayan Chaco and environmental governance.

. Facetti started his studies in radioecology in 1984. In 1990, he travelled to Europe to expand his research on heavy metals in rivers and water reservoirs and nuclear analytical techniques. He continued working on this topic while at the University of Antwerp, University of Toulouse and with the University of Buenos Aires. His research papers were published in various academic journals.

In 2013, Prof. Facetti received funding from CONACYT's Prociencia programme and directed several environmental research projects. In 2014 and 2015, he became Invited Professor and Researcher Professor for the Centre National des Recherches Scientifiques and the Observatoire Midi-Pyrennees France, while working at the University of Toulouse-Paul Sabatier, in France.

Prof. Facetti is lecturer in Environmental Chemistry and Environmental Management and Assessment at the National University of Asuncion's School of Engineering; has been Tutor and Professor of the Doctorate Program at the National University of Itapua (Paraguay), and lecturer at the Strategic Studies Institute (since 1996 to the present) and at the Carlos Antonio Lopez

Diplomatic Academy (since 2014 to the present). Prof. Facetti has also been a guest speaker at the Pierre and Marie Curie University (UMPC), the University of Kyoto, the University of Aveiro

(Portugal), the National Defense University (USA), at the Center for Hemispheric Defense Studies and at the Copenhagen Business School.

Prof.Facetti's academic career includes:

Fellow CNRS University of Toulouse 2016-2017

Fellow Observatoire Midi Pyrenees- University of Toulouse, 2014-2015.

Fellow - University of Antwerp. Post Doctoral studies - "Marie Curie" Program - European Union. Research in Environmental Chemistry: Mobilization of Heavy Metals of the Paraguay River. Researcher in Ecology of Tropical Lakes and Reservoirs using C-14. Universite Libre de Bruxelles.

Prof. Facetti has published more than 60 scientific articles in international journals and proceedings of conferences, eight book chapters and four books on environmental management, national defense and nuclear security. Some of his more notorious articles, chapters and books include:

1. *Strontium isotopes ($^{87}\text{Sr}/^{86}\text{Sr}$) reveal the life history of freshwater migratory fishes in the La Plata Basin.* Esteban Avigliano; Marc Pouilly; Julien Bouchez; Alejandro Domanico; Sabina Llamazares Vegh; Cristhina Clavijo; Pablo Scarabotti; Juan Facetti; Jacqueline Caffetti; Franco del Rosso; Cristophe Pecheyran; Sylvain Béral; Alejandra Volpedo. *River Res. Applic.* 2020. 1-16
2. *Exposure to 19 elements via water ingestion and dermal contact in several South American environments (La Plata Basin): From Andes and Atlantic Forest to sea front* E. Avigliano, C. Clavijo, P. Scarabotti, S. Sánchez, S. Llamazares Vegh, F.R. del Rosso, J.D. Caffetti, J.F. Facetti, A. Domanico, A.V. Volpedo. *Microchemical Journal* 149 (2019). 103986.
3. Facetti J.F, et al. *Methyl tert-butyl ether (MtBE) in deep wells of the Patiño Aquifer, Paraguay: A preliminary characterization.* *Sci.Total Environm.* 647 (2019):1640-1650.
4. Facetti J.F, Castiglioni L.A.; Benitez C. *The Committee on Hemispheric Security and eventually the Permanent Council of the Organization of American States (OAS) as a Valid Forum for Discussing Nuclear Security in the Americas.* International Conference of the Security of Radioactive Materials and associated Facilities. (2018). Vienna. Austria.
5. Servin. M.R. Facetti J.F. *Ecosystem Services within a Key Subtropical Region Affected By The Yacyreta Dam In Paraguay.* International Journal AGROFOR. Volume 3, Issue 3; ISSN 2490-3434 – Printed; (2018). ISSN 2490-3442.
6. Facetti JF, Cabrera C. *The soybean war in Paraguay: The soybean boom's flow from Brazil to Paraguay, its spillover effects and State responses.* Proceedings of the Int.Conference on Agriculture and Forestry. AGROSYM. 2018
7. López Moreira G.; Hinegk L; Salvadore A; Zolezzi G; Hölker F; Monte Domecq R; Bocci, M; Carrer S; de Nat, L; Escriva, J; Benitez G; Avalos C; Peralta I; Insaurralde, M; Mereles, F.; Setkacheff J; Wehrle, A; Facetti-Masulli J; Facetti, JF; Toffolon, M. (2018). *Eutrophication, Research and Management History of the Shallow Ypacaraí Lake (Paraguay).* Sustainability. 10. 10.3390/su10072426.
8. Facetti J.; Samudio P.; FARINA R.; Negroes N.; *Camera traps as a tool to define the monitoring baseline for the jaguar and other mammal species in the Chaco Seco, Paraguay.* In: Symposium: Effects of environmental changes on Wild fauna and habitats. Vila Real, Portugal Book of

Gomez C.; Leguizamon H.; Alegre A.; Velazco Claudia; Leon R.; Carvalho F.; Nunez R.; Nunez C.; Ojeda J.; *Preliminary Characterization of MTBE in the Aquifer Patiño, Metropolitan Region of Asuncion, Paraguay*. In: 18th European Meeting on Environmental Chemistry (EMEC18), 2017 Oporto, Portugal EMEC18 Book of Abstracts. 2017.

10. Facetti J.; Vergara B.; *Nutrient Concentration Signature and Trophic State of the Shallow Poti-y Sub-Reservoir From The Large Subtropical Reservoir of Yacyreta*. In: 18th European Meeting on Environmental Chemistry (EMEC18), 2017 Oporto, Portugal Book of Abstracts. 2017.
11. Facetti J.; Nunez R.; Bernal C.; Gomez C.; Carvalho F.; Alegre A.; Leguizamon H.; Velazco C.; *Case study: Validation of the SPME-GC / MS method for determination of Methyl tert-Butyl Ether and its degradation products in groundwater*, Revista de la Sociedad Científica del Paraguay, v. 22 f: 1, p. 103-110, 2017.
12. Facetti J.F.; Benitez C. *Design and Implementation of an Integrated National Security Plan in a Developing Country: Challenges and Opportunities starting from the A/CPPNM ratification from Paraguay*. Poster Ref. Number: 940. International Conference on Nuclear Security: Commitments and Actions, Vienna, Austria. (2016)
13. Facetti J, Mubiana R, Blunt E., Morales C. “*Levels of lead and other toxic elements in blood of indigenous people from the Central Chaco-Paraguay*”. Proceedings of the EMEC17 Conference. Inverness Nov.2016.
14. Facetti J.F; Facetti-Masulli J. *Ypacarai Lake: Evolution of the Trophic State of a sub-tropical shallow lake and key factors to consider in remediation activities*. Proceedings of the International Society of Limnology SIL2016 Conference. Turin. August 2016.
15. Facetti J.F. *El Régimen de Instrumentos Internacionales en Materia Nuclear como elementos de la Política Multilateral y Bilateral de la Republica del Paraguay (Primera Parte)*, Revista Diplomatica, v. 3, p. 51-74, 2014
16. Facetti J.F.; Peralta J. *Illicit Trafficking of Nuclear and Radioactive Material in Paraguay*. Pan American Meeting on Strengthening Implementation of International Instruments for Enhanced Nuclear and Radiological Security. (2006). Quito Ecuador.
17. Facetti J.F. *Los Nuevos desafíos de la reforma de la defensa en el Paraguay*. Debate Nacional sobre Defensa. Aportes Internacionales. pp153-164. Gonzalez Guyer Ed. (2006) ISBN: 9974797101. Montevideo-Uruguay.
18. Facetti J.F. *La Defensa en el Paraguay. Atlas Comparativo de la Defensa en América Latina* Donadio Marcela Ed. ISBN: 987-21725-3-6. (2005). pp 240- 248. 296p Buenos Aires. 19. Facetti J.F. *Managing for Development Results and Aid Effectiveness. The case of Post Duvallier Era in Haiti*. Facetti. J. Presented at: OECD-DAC-Development Partnership Forum. Paris – 11-14 December 2.002. Proceedings of the Forum OECD/DAC: In Internet: www.uneval.org/docs/DCD_DAC_2003_6.doc
20. Facetti J.F. *Seguridad, Competitividad y Ambiente en la Región*. Presented at REDES 2.001 National Defense University. May 2.001. Internet: <http://www3.ndu.edu/chds/Redes2001/Plenary1a.htm>
21. Facetti J.F.; Dekov V.M.; Van Grieken R.; *Heavy Metals in Sediments from the Paraguay River: A Preliminary Assessment*. Science of the Total Environment, v. 209 f: 1, p. 79-86, 1998. 22. Facetti J.F., Stichler W. *Preliminary Results of Environmental Isotopes Concentration on Rain and Groundwater in Paraguay*. Proceedings of the Conference on Isotopes for Hydrology. (1995). International Atomic Energy Agency.

Books

1. *Manual Técnico de Descentralización de la Gestión Ambiental*. Hideo Kawai; Juan Francisco

Facetti. Editors. JICA-SEAM-FIUNA. Ed. MERCURIO. Nov 2016. Vol I and Vol II. ISBN: 9789995326517

2. *Estado Ambiental del Paraguay*. Facetti J.F. Presente y Futuro. GTZ-SEAM. 2002. 3. *Contaminación Industrial y Urbana en el Paraguay*. Facetti J. F. ENAPRENA-SEAM. Ed. Ikonos. 1997

Book chapters

1. *The Atlantic Forest of South America. Biodiversity Status, Threats and Outlook. The Guarani Aquifer: A regional environmental service.* pp.325-327. Center for Applied Biodiversity Science. Conservation International. 2003. ISLAND PRESS. Washington, USA. ISBN: 1-55963-989-x
2. *Is Latin America condemned by Corruption? In: Latin America Democracy: Emerging Reality or Endangered Species?* Millet R. Holmes J. Perez O. Rudlege Univ.Press.2009. 1st.Ed., Washington DC, Routledge, 2009, v. I, p. 301-324, ISBN: 9780415990483

AWARDS/DECORATIONS

October 2018 - National Order of Merit *Comuneros*. Paraguayan Chamber of Representatives of the National Congress.

August 2013 – Medal of Honor. Given by the President of the Republic. National Defense Council. -Strategic Studies Institute.

1990 – Valedictorian (Summa Cum Laude). School of Chemistry. National University of Asuncion.

MEMBERSHIP OF PROFESSIONAL BODIES

Association of Chemistry and Environment ACE (Luxembourg) (Board Member)

International Association of Limnology

Scientific Committee of the Safari Club International (USA)

LANGUAGES

Spanish and French (Native speaker)

English and Portuguese (Advanced speaking, reading and writing skills)

Italian (Good speaking skills, some reading and writing)

HOBBIES

Flying (Certified pilot), Mountain trekking, Golf, Music (piano player), Readings from Saint Thomas Aquinas; Saint Agustin of Hippo.

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