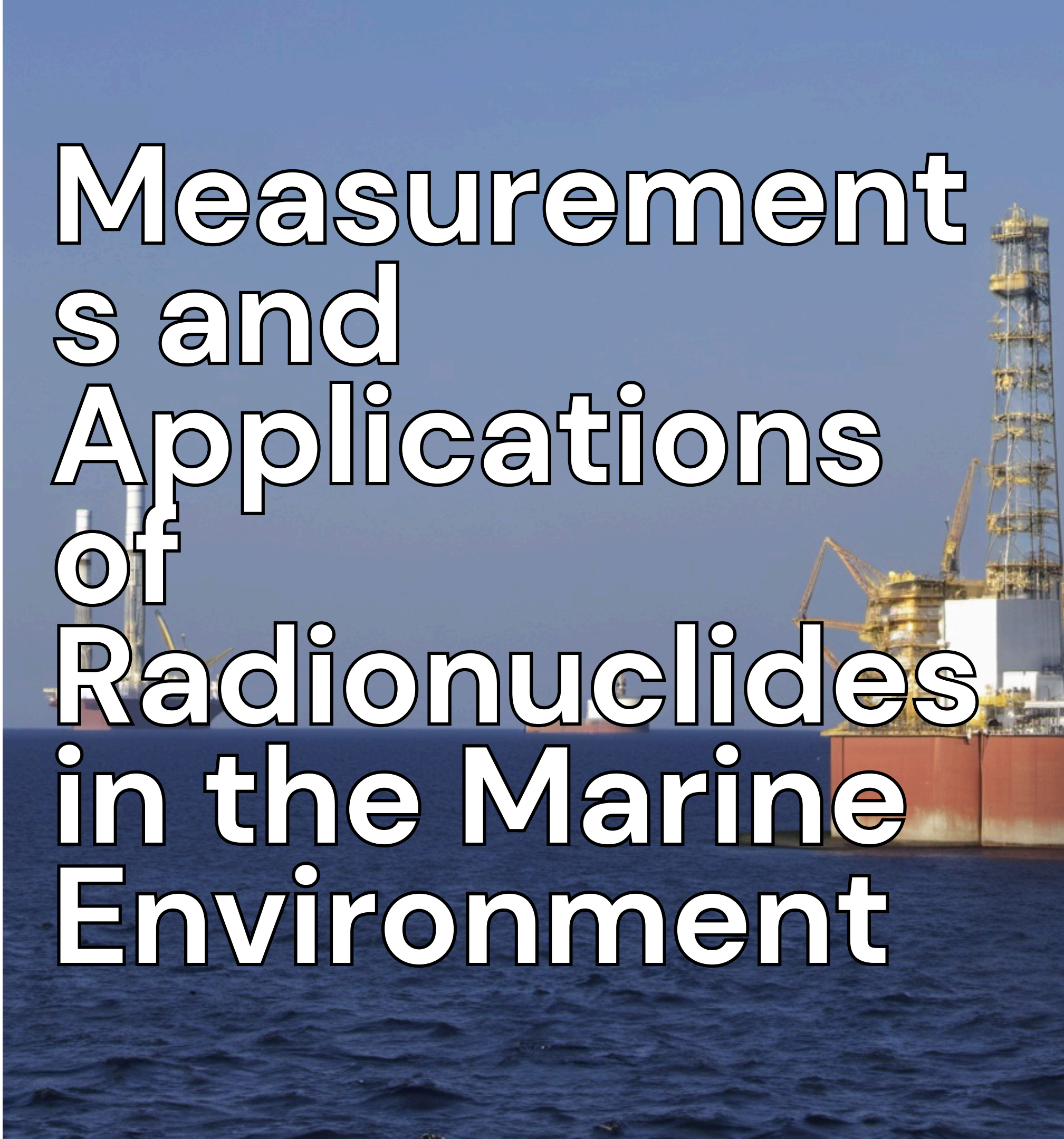


Meet Our — Team

Measurements
and
Applications
of
Radionuclides
in the Marine
Environment

The background of the right side of the slide is a photograph of an offshore oil rig. The rig is a complex of yellow and red structures, including a tall derrick and various platforms, situated in the middle of a dark blue ocean under a clear blue sky. The text is overlaid on this image.

Manuel Gazquez

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Dr. Manuel Gazquez holds a Ph.D. from the University of Huelva and degrees in Physical Sciences and Environmental Technology. His research focuses on environmental radioactivity measurement and NORM waste recovery. He has led pioneering projects, including the first study in Spain on the radiological aspects of industrial waste valorization.

His work also includes radiometric technique development, NORM industry impact assessment, and occupational exposure studies. In 2014, he led a radiological soil characterization project in Ecuador. Now a Professor at the University of Cádiz, he has published over 50 JCR articles and supervised award-winning Ph.D. theses.

JP Bolívar



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Dr. JP Bolívar is the director of the "Radiation Physics and Environment" research group (FRyMA) and has over 33 years of experience in radionuclide measurement, NORM waste valorization, and atmospheric pollution. He has published over 200 JCR papers (100 in Q1) and led 36 competitive projects, supervising 19 Ph.D. theses. His pioneering Ph.D. research in 1990 addressed radiological issues in NORM industries, leading to innovative gamma spectrometry calibration methods.

He has contributed to Spanish radiation regulations and advanced atmospheric pollution studies in collaboration with INTA. His work integrates high-impact research with academic teaching.

Inmaculada Ramos



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Dr. Inmaculada Ramos earned his Ph.D. at the University of Cádiz, where he established its first gamma environmental radioactivity lab and collaborated with KVI (Netherlands) on developing a portable gamma detector for marine sediment analysis. He later played a key role in securing approval and funding for Spain's first synchrotron light source, the ALBA Synchrotron, now the country's largest scientific facility.

From 2003 to 2021, he held leadership roles at ALBA, overseeing R&D and facility operations. In 2021, he returned to the University of Cádiz, joining the Radioactivity and Environment group to continue his teaching and research.

Francisco Javier Soto Cruz

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Francisco Javier Soto Cruz is a Ph.D. student in the Management and Conservation of the Sea program at the University of Cádiz, where he also earned his bachelor's degree in chemistry. His research focuses on the decontamination of phosphogypsum leachates and the valorization of waste to promote sustainable industrial waste management.

He has contributed to environmental research projects and published scientific articles in the field. A member of INMAR and the Radioactivity and Environment Research Group, he collaborates with universities in Spain and Portugal, including Huelva, Córdoba, and Aveiro.

María Villa Alfageme



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Dr. María Villa Alfageme is a Professor in the Department of Applied Physics II at the University of Seville and holds a Ph.D. in Physics. Her research focuses on the Biological Carbon Pump, carbon flux assessment, and the use of radioactive isotopes as environmental tracers.

She has been a visiting researcher at leading institutions in the UK, Switzerland, the US, and China and has participated in international oceanographic campaigns. A member of the IAEA Training Programme and UN Ocean's Decade Program JetZon, she has led 10 of 25+ research projects and published over 60 papers. At the University of Seville, she has held key academic leadership roles in internationalization and postgraduate programs.