

RESUMEN CURRICULAR

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FORMACIÓN ACADÉMICA:

- Licenciatura en Oceanología. UABC 1985. *Mención Honorífica (Suma cum laude)*
- Doctorado en Geología. McMaster University, Canadá. 1991. *Mención Honorífica (Suma cum laude)*
- Posdoctorado en Scripps Institution of Oceanography, Universidad de California, San Diego. La Jolla, CA. USA.

CARGOS:

- Investigador Titular Nivel "C". Instituto de Investigaciones Oceanológicas. UABC
- Profesor del Programa de Posgrado en Oceanografía Costera, FCM-IIO, UABC
- Jefe del Área de Geoquímica Ambiental, IIO-UABC (1988-1994)
- Líder del Cuerpo Académico de Geociencias Ambientales (Consolidado), IIO, UABC

DISTINCIONES Y SERVICIO PROFESIONAL:

- Sistema Nacional de Investigadores Nivel-3
- Miembro del Comité Científico de PAGES-IGBP (Past Global Changes of the International Biosphere-Geosphere Program), Suiza.
- Miembro del Comité Ejecutivo Nacional de la Red MexLTER (Red Mexicana de Observación Ecológica de Largo Plazo). México.
- Premio al Mérito Académico en Ciencias Naturales y Exactas, 1999. UABC.
- Presidente del Consejo Consultivo Nacional Científico y Técnico de Arrecifes de Coral (Gobierno Federal)
- Fulbright Visiting Professor, Universidad de California, San Diego, EUA.
- AGAUR Fellow (Profesor Visitante) Generalitat de Cataluña, Universidad Autónoma de Barcelona, España
- DSF Burse (Profesor Visitante), del Institut de Recherche pour le Développement (IRD) de Francia (París).

PARTICIPACION EN COMITES:

- Panel Dictaminador del Premio al Merito Académico UABC.
- Comisión Binacional UC-MEXUS. Panel evaluador en el área de Ciencias Físicas y de la Tierra.
- Comité Evaluación de Becas de Posgrado al Extranjero CONACYT (Mesa Ciencias de la Tierra)
- Comité Evaluador Externo (miembro del CEE) del COLEGIO DE LA FRONTERA SUR, QROO.
- Delegado Nacional de Geoquímica Marina. Instituto Nacional de Geoquímica

TESIS DIRIGIDAS:

27 en Total (terminadas): 5 de Doctorado, 13 de Maestría y 9 de Licenciatura.

RESUMENES EN CONGRESOS Y PRESENTACIONES EN PUBLICO (TV, Radio, Prensa):

+100 Congresos Internacionales, 22 Conferencias por Invitación, 20 notas periodísticas (TV, Radio y Prensa)

PREMIOS:

- Premio al Merito Académico 1999 en la Universidad Autónoma de Baja California
- Mención Honorífica Doctorado, 1991
- Mención Honorífica Licenciatura, 1985
- Premio ICOD (del International Centre for Ocean Development), Nova Scotia, Canada, 1986
- Premio de la Fundación Yates, McMaster University, Canadá, 1987

- Premio ODF, McMaster University, Canadá, 1988

REVISOR PARA INSTITUCIONES Y FUNDACIONES CIENTÍFICAS INTERNACIONALES:

- NSF (National Science Foundation, EUA).
- Instituto de Geofísica y Física Planetaria, Universidad de California, San Diego (UCSD) EUA
- Laboratorio Nacional de Los Álamos (EUA),
- National Geographic Society (Comité de Investigación Submarina, EUA),
- UC-MEXUS (Bi-National Committee University of California- Mexico),
- FONCICYT (Fondo para Proyectos Científicos México-Unión Europea)
- Instituto Smithsonian para la Investigación Tropical (EUA),
- Fundación Holandesa para el Avance de la Investigación Tropical (WOTRO),
- Administración Nacional para el Océano y la Atmósfera (NOAA, EUA),
- Fundación Nacional de Ciencias Argentina, Fundación Nacional de Ciencias de Colombia (Colciencias), Consejo Nacional de Ciencia y Tecnología de México (Conacyt).
- Ministerio de Cultura de Costa Rica, Universidad Nacional Autónoma de México (UNAM), El Colegio de la Frontera Sur, México (ECOSUR), UABCS (La Paz, BCS), CICIMAR (La Paz, BCS).

REVISOR PARA REVISTAS CIENTÍFICAS:

- Earth and Planetary Science Letters,
- Geophysical Research Letters (American Geophysical Union)
- Geological Society of America,
- PALEO3 (Palaeogeography, Palaeoclimatology, Palaeoecology)
- Global Planetary Changes
- Marine Biology.
- Journal of Experimental Marine Biology and Ecology.
- Continental Shelf Research.
- Bulletin of Marine Science.
- Journal of Coastal Research.
- GeoMarine Letters.
- Ciencias Marinas.
- Geofísica Internacional.
- Revista de Biología Tropical

ARTÍCULOS CIENTÍFICOS MAS REPRESENTATIVOS:

- CARRIQUIRY J.D., Risk M.J. and Schwarcz H.P., 1988, Timing and Temperature Record from stable isotopes of the 1982-83 El Niño warming event in eastern Pacific corals. *PALAIOS*, v.3: 359-364.
- CARRIQUIRY J.D., Risk M.J. and Schwarcz H.P., 1994. Stable isotope geochemistry of corals from Costa Rica as proxy indicator of El Niño (ENSO). *Geochimica et Cosmochimica Acta*, 58: 335-351
- CARRIQUIRY J.D. and Sanchez A. (1999). Sedimentation in the Colorado River delta and Upper Gulf of California after nearly a century of discharge loss. *Marine Geology* 158: 125-145
- CARRIQUIRY JD, Sanchez A, and Camacho-Ibar VF. (2001). Sedimentation in the Northern Gulf of California after the elimination of Colorado River Discharge. *Sedimentary Geology* 144(1-2): 37-62.
- van Geen, A., Y. Zheng, J. M. Bernhard, K. G. Cannariato, J. CARRIQUIRY, W. E. Dean, B. W. Eakins, J. Pike, J. D. Ortiz. (2003). On the preservation of laminated sediments along the western margin of North America. *Paleoceanography* 18 (N.4): 22_1-22-18.
- Ortiz, J.D., S.B. O'Connell, J. DelViscio, W. Dean, J.D. CARRIQUIRY, T. Marchitto, Y. Zheng, A. van Geen. (2004). Enhanced marine productivity off western North America during warm climate intervals 3 of the past 52 k.y. *Geology* 32: 521-534.
- CARRIQUIRY, J.D., Cupul-Magaña, A.L., Rodriguez-Zaragoza, F. and Medina-Rosas, P. (2001). Coral bleaching and mortality in the Mexican Pacific during the 1997-98 El Niño and prediction from remote sensing approaches. *Bulletin of Marine Science* 67(1): 237-249.

Major Accomplishments:

In Scientific Research:

- Author of the first stable-isotope application in corals demonstrating that ENSO activity (and similar short-lived oceanographic phenomena) can be accurately recorded in time and intensity in coral skeletons. In the first review paper in the field, the research paper of the author was listed, among others, as one of the most prominent applications of stable isotope geochemistry to the resolution of problems in geological oceanography (Aharon, 1991, Coral Reefs, v.10: 71-90).
- Citations in numerous prestigious international scientific journals as well as in American and European textbooks, where the inter/multidisciplinary nature and implications of this research can be appreciated (see Table in the last page of this CV).
- Citation rate at least ~4 times higher than the world's average citation rate in the field of Geosciences.

In Academia:

- Early in career, became strongly involved in many organizational aspects of the academic life of University of Baja California (participating in diverse academic committees) in order to implement the newly created [then] doctoral program in Coastal Oceanography.
- Appointed as Chairman of the Department of Geology, with the assignment of developing a strong curricular program on Marine Geochemistry (assembling later the best marine biogeochemistry group in Mexico). We later renamed this department as the Dept. of Environmental Geochemistry.
- Responsible for establishing the first Stable Isotope and ICP laboratory in the entire Latin-American region fully dedicated to marine sciences and oceanography. Supported by Mexico's NSF (Conacyt) with more than \$1 million US Dollars for the establishment of this laboratory. UABC provided matching funds. More than one hundred theses have been supported with the instrumentation acquired and managed by our research group.
- Strongly involved in the development of human resources (both through teaching and supervising), having directed so far 27 theses (5 PhD, 13 MSc, 9 BSc)
- Received the *Academic Merit Award in 2000* from the University of Baja California (UABC) for "the Quality of Research, Development of Human Resources and Research Groups Development". This is the highest academic distinction bestowed by UABC to its Faculty.

Academic Profile:

- Strongly involved in multi- and interdisciplinary research with topics ranging from global change to coral-isotope and -trace element geochemistry, coral reef ecology (environmental effects and recruitment), benthic foraminifera, estuarine biogeochemistry (nutrient and materials fluxes across land-sea interface), Marine-Ecology and -Chemistry & Sustainable Development, organic- and inorganic-geochemistry of marine and estuarine sediments (lipid biomarkers, humic substances, stable isotopes, trace and heavy metals, rare earth elements, etc), marine and estuarine sedimentation, deep-sea paleoceanography (stable isotopes, trace metals, alkenones), marine sedimentology and sedimentation, etc.