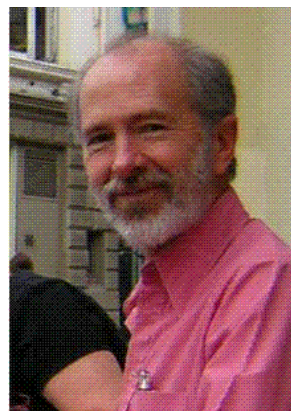


Vitae Summary (2015)

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Studies:

Bachelors of Science in Physics, Rensselaer Polytechnic Institute (RPI), NY, USA,
Master of Science in Physics, Manchester University, UK.
Master of Science, Extractive Metallurgy, Imperial College, London, UK.
PhD, Imperial College, London, UK. 1979

Academic Credentials

Professor Physics, Universidad Simón Bolívar.

Founder, Venezuelan Nuclear Society. Founder and former head of Laboratorio de Física Nuclear de la USB.

Researcher in Nuclear Analytical Techniques (PPI 4) PEI C (117 Published papers)

International Atomic Energy Agency Expert (10 missions of technical assistance).

Tesis Tutor: 19 undergraduate, 6 Master, 5 Doctorates.

Price "Andres Bello." Of the "Asociación de Profesores" of the Universidad Simón Bolívar. To the best Basic Research work in the field of Physics and Mathematics 1992.

Price "Mercator Visiting Professorship" of the German Government, 2005;

Price "Andres Bello." Of the "Asociación de Profesores" of the Universidad Simón Bolívar. To the best Research work in Applied Science, 2006.

Administrative experience: Twice Head of the "Laboratorio D" (The Physical Laboratories, USB). Responsible for 12 financed research projects.

Visiting Professor (during sabbatical leave) Atominstitut, Technical University Vienna, Austria, 1995; Imperial Collage, London, UK, 2003; ISAS, University of Dortmund, Germany, 2005. Institute de Physique Nucleaire, Orsay, France, 2013

Scientific Communications.

124 Presentations in National and International congresses. As main or co-Author.

125 Scientific publications.

Titles since year 2010:

- 106 Haydn Barros, Lué-Merú Marcó Parra, Leonardo Bennun & **Eduardo D. Greaves**. Determination of arsenic in water samples by Total Reflection X-Ray Fluorescence using pre-concentration with alumina.. Spectrochimica Acta B **65** (2010) 489–492

- 107 D. Palacios, R. Ingles, **E. D. Greaves**, L. Sajo-Bohus & H. Barros. Alternative method for thermal neutron flux measurements based on common boric acid as converter and LR 115 detectors *Revista Mexicana de Física* S56 (1) 30-34 (2010)
- 108 D. Palacios, L. Sajo-Bohus, H. Barros, & **E. D. Greaves**. Alternative method to determine the bulk etch rate of LR-115 detectors. *Revista Mexicana de Física* S 56 (1) 22–25 (2010)
- 109 D. Palacios, F. Palacios, L. Sajo-Bohus, H. Barros, & E.D. Greaves. LR-115 detector response to ^{222}Rn , ^{220}Rn and their progenies, exposed to hemispherical surfaces in free air, and design of a system to calculate their concentrations. *Radiation Measurements* 43 (2008) S435–S439.
- 110 R. Alvarado, D. Palacios, , L. Sajo-Bohus, **E.D. Greaves**, H. Barros & P. Nemeth. Nêutron flux characterization using LR-115 NTD and binary glass metal as converter. *Revista Mexicana de Física*. S56 (1) 5-8 (2010)
- 111 María I. Camejo, Lyzeth Abdala, Giovanni Vivas-Acevedo, Ricardo Lozano-Hernández, Miriam Angeli-Greaves & **Eduardo D. Greaves** Selenium, Copper and Zinc in Seminal Plasma of Men with Varicocele, Relationship with Seminal Parameters *Biological Trace Element Research: Volume 143*, Issue 3 (2011), 1247-1254
- 112 K. Furukawa, **E. D. Greaves**, L. B. Erbay, M. Hron & Y. Kato. New Sustainable Secure Nuclear Industry based on Thorium Molten-Salt Nuclear Energy Synergetics(THORIMS-NES) in Nuclear Power, Book 1, INTECH Pubs. ISBN 978-953-307-185-5. (2011)
- 113 László Sajo-Bohus, **Eduardo D. Greaves** & József K. Pálfalvi (2011). Boron Studies in Interdisciplinary Fields Employing Nuclear Track Detectors (NTDs), *Radioisotopes - Applications in Bio-Medical Science*, Nirmal Singh (Ed.), ISBN: 978-953-307-748-2, InTech, Available from: <http://www.intechopen.com/articles/show/title/boron-studies-in-interdisciplinary-fields-employing-nuclear-track-detectors-ntds->
- 114 **E. D. Greaves**, K. Furukawa, L. Sajo-Bohus & H. Barros. The Case for the Thorium Molten Salt Reactor. *Proceedings IX Latinamerican Symposium on Nuclear Physics and Applications*. Quito, Ecuador. 18-22 July 2011. AIP Conf. Proc. 1423, 453-460 (2012) doi: 10.1063/1.3688845
- 115 A. Vidal, G. Viesti, C. Osorio, A. Hovath, H. Barros, M. Caldogno, **E. D. Greaves** & L. Sajo-Bohus. Multiphase Monitoring by Annihilation Radiation Coincidence Mode. AIP Conf. Proc. 1423, 414-417 (2012) doi: 10.1063/1.3688838
- 116 Ricardo Castell, **Eduardo D. Greaves**, Lyzeth Abdala & Haydn Barros. TXRF and ICP-OES analysis of liquid-phase laser-ablated (LP-LA) nanoparticles of cryolite-alumina solutions. *Appl. Phys. B* (2012) 109:47–53 DOI 10.1007/s00340-012-5175-6
- 117 L. Sajo-Bohus, H. Barros, M. Sajo-Castelli, M. Asuaje, S. Croquer, J. Clarembaux, **E. D. Greaves** An Alternative Source for Venezuelan Nuclear Energy Production: The Thorium Molten Salt Reactor. *Proceedings of the 13th International Conference On Nuclear Reaction Mechanisms*. CERN- Proceedings -2012-002 Varenna (Italy), Villa Monastero, 11-15 June 2012 Francesco Cerutti et al. Eds. 459-468 CERN Geneva 2012. ISBN 9789290833826 URL <http://cds.cern.ch/record/1495183?ln=es>
- 118 D. Palacios, E. Fusella, Y. Avila, J. Salas, D. Teixeira, G. Fernández, A. Salas, L. Sajo-Bohus, **E. D. Greaves**, H. Barros, M. Bolívar, y J. Regalado. Radon Measurements Over A Natural-Gas Contaminated Aquifer, *Radiation Measurements* ISSN: 1350-4487 Vol. 49 (2012) 1-5 Available online 21 November 2012 URL: <http://www.sciencedirect.com/science/article/pii/S1350448712003137>
- 119 **Eduardo D. Greaves**, Yelitza Marin, Francisco Visaez, José Vicente Hernández & Pinus caribaea forestry plantations in Venezuela as a solar energy collector. *Natural Resources* ISSN: 2158-706X Special issue “Solar Energy” Accepted for publication Feb. 2013 URL: <http://www.scirp.org/journal/nr> Tis paper was withdrawn due to cost of publicarion of USD 500. It was resubmitted to three different journals. Rejected by two and considered by Interciencia (Sept. 2014) Accepted by INTERCIENCIA May 2015
- 120 MANRIQUE John, JIMÉNEZ Yalimay, **GREAVES Eduardo D.** y SIFONTES Ramón. OCURRENCIAS DE TORIO EN EL ESCUDO DE GUAYANA. En *Memorias V Simposio Venezolano de Geociencias de rocas Ígneas y Metamórficas*. Geos 45, (Diciembre 2013) 87-89
- 121 Greaves E. D. "The index of refraction of quasi-empty space" Rejected by *Foundations of Physics* Sep.2014. Rejected, *Phys Rev D* Oct. 2014, Rejected by *Nature Physics* 15 Dec. 2014. Rejected by *General Relativity and Gravitation* January 2015, Rejected *Journal of Astrophysics and Astronomy*. May 2015.

- 122 Laszlo Sajo-Bohus, Haydn Barros, **Eduardo D. Greaves** and Hector Rene Vega-Carrillo GRAPHITE MODERATED 252Cf SOURCE. Applied Radiation and Isotopes Applied Radiation and Isotopes 100(2015)108–112
- 123 Greaves E. D. La hipótesis de Céspedes-Cure y el índice de refracción del espacio en un campo magnético. Acta Científica Venezolana, xxx (x-x): xx-xx, Accepted (in print) July 2015.
- 124 Laszlo Sajo-Bohus, Eduardo D. Greaves, Jesus Davila, Haydn Barros, Felix Pino, Maria T. Barrera, and Fulvio Farina. Th and U fuel photofission study by NTD for AD-MSR subcritical assembly AIP Conference Proceedings 1671, 020009 (2015); doi: 10.1063/1.4927186
- 125 Daniel Palacios, Emidio Fusella, Yininber Avila, Jhonny Salas, Diana Teixeira, Guillermo Fernández, Laszlo Sajo-Bohus, Eduardo D. Greaves, Haydn Barros, Manuel Bolívar and Jimmy Regalado. Soil gas radon and thoron measurements in some Venezuelan oilfields. Journal of Radioanalytical and Nuclear Chemistry. (Accepted for publication July 27, 2015)

Referee of Scientific journals:

<u>Journal</u>	<u>Years</u>
Spectrochimica Acta (GrupoA*):	1998, 1999, 2000, 2002, 2005, 2006
X-ray Spectrometry (GrupoA):	1998, 2005, 2008
Angewandte Chemie (GrupoA):	2004
Inorganic Chemistry (GrupoA):	2004
App. Rad. Isotopes	2005, 2006
Acta Physica et Chimica Debrecina	2005, 2006
Spectrochimica Acta Reviews (GrupoA)	2007
<u>American Journal of Physics (GrupoA)</u>	<u>2009</u>

* Journal classification according to FONACIT

Candidate to Rector of the Universidad Simón Bolívar, Caracas, Venezuela, 2009 Electoral Contest. Postulado por la plancha de la INCLUSION.