

## CURRICULUM VITAE

NAME: Jorge Néstor Moreno Ruiz  
DATE OF BIRTH: 26th February 1952  
AGE: 62years  
NATIONALITY: Peruvian  
MARITAL STATUS: Married, 2 children  
PROFESSION: Physicist  
ADDRESS: Virrey Abascal 259  
San Isidro, Lima, Perú  
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### PROFESSIONAL EXPERIENCE

**Company: Brüel & Kjaer, Skodsborgvej 307, 2850 Naerum, Denmark**

1991-1992 Position: Application Specialist

Responsibilities:

- Expert level applications support, primarily loudspeakers and similar transducers.
- Factory technical support to customers and sales engineers.
- Write technical application notes, write/present conference papers.

1988 -1991 Position: Field Application Engineer (Mainly acoustics)

Responsibilities:

- Technical and applications support for the Latin American market.
- Education (customers and agents) in measuring techniques using Brüel & Kjaer instruments.
- Lecture in subjects such as noise control, architectural acoustics, measurements, Etc.

**Company: Corporación Electrónica Metropolitana S.A., Av. Maquinarias 2460, Lima, Perú**

1979-1988: Position: Head of Acoustic Engineering Dept

- Responsibilities: Design and develop loudspeakers (transducers and systems). Experience simulating: loudspeakers (drivers); closed box systems; passive radiator systems; compression drivers; crossover networks.
- Educate technical and sales personnel.

**Pontificia Universidad Católica del Perú Av. Universitaria 1801 San Miguel  
Lima, Perú**

1979 – 2012 (on leave of absence during the years I lived abroad)

Present position: Professor

Head of the Department of Science

Head of the Acoustics Laboratory

**Some Relevant Projects Related to Acoustics and Audio**

- Acoustic Consultancy for the New Library and Classrooms of the Department of Science and Engineering of the Pontificia Universidad Católica del Perú.
- Acoustic consultancy for the “Torres Platinum Project” – Lima
- Acoustic design of “UVK Multicines – Huacho” – Huacho- Perú
- Acoustic design of the “Auditorium of Humanities Department” - Pontificia Universidad Católica del Perú – San Miguel- Lima- Perú
- Acoustic design of the auditorium of “Lugar de la Memoria” – Miraflores- Lima – Perú
- Acoustic design of the auditorium of the “ Hiram Birgham School” – Surco – Lima- Peru
- Acoustic design of the coliseum “ Belén School” – San Isidro- Lima
- Acoustic design of the new television studios of ATV( Channel 9) ,Lima Peru
- Acoustical design of the Theater “Alejandro Granda”, Callao- Perú.
- Acoustical design for the New Television Studio of the Department of Communication Science and at the Pontificia Universidad Católica del Perú
- Evaluation of the Public Address System of the "Jorge Chavez" International Airport –Callao, Lima. (As head of the Acoustic Laboratory of the Pontificia Universidad Católica del Perú)
- Acoustical Design of the New Coliseum (3000 seats) at the Pontificia Universidad Católica del Perú.
- Acoustical Design of the Theater "La Plaza" at the "Larco Mar" Entertainment Center, Lima, Perú.
- Acoustical Design for the new Conference Room for the Department of Science and Engineering at the Pontificia Universidad Católica del Perú
- Acoustic Consultant for six new Movie Theaters in "Multicines Star San Juan" -San Juan de Miraflores, Lima.
- Acoustic Design of the Auditorium and Board Room of the new "Wiese Sudameris Bank Headquarters “; Lima. (Now Scotia Bank )
- Acoustic Design and Noise Control of the "Hard Rock Café in the "Larco Mar" Entertainment Center.(now closed)
- Acoustic Design of the Auditorium of the "Sir Isaac Newton High School" -La Molina, Lima.
- Acoustic Design of the "Main Auditorium" and the "Video Pub" of the Recreational Center of CONAFOVICER , Lima
- Acoustic Design of the Auditorium of the National School of Customs - Lima.

- Acoustic Design of the Peruvian-Japanese Cultural Center Theater. (Head of the team of the Acoustic Laboratory of the Pontificia Universidad Católica del Perú.
- Acoustic Design of the Theater of the Pontificia Universidad Católica del Perú Cultural Center.
- Acoustic Design of the Auditorium of the Department of Law of the Pontificia Universidad Católica del Perú.
- Design and supervision of the sound reinforcement installation used during Pope John Paul II visit to Lima, Perú, in 1985. Approximately 1.5 million people attended each of the two sessions that took place on that occasion.

In most of the consultancies above also noise control and vibration control was included.

### **PUBLICATIONS AND CONFERENCES**

- "Introducción al Control de Ruido"-libro editado por Brüel & Kjaer, Denmark. Printed in Denmark by Naerum Offset. No. BA7374-13
- "Measurement of Loudspeaker Parameters using a Laser Velocity Transducer and Two Channel FFT Analysis". Jorge N. Moreno published "Journal of the Audio Engineering Society (AES)", volume 39, tomo 4 de, pp. 243-249 (April de 1991).
- "Measurement of Loudspeaker Parameters using a Laser Velocity Transducer and Two Channel FFT Analysis". Jorge N. Moreno Published in " Loudspeakers Vol. 4 An Anthology vol.32-vol.39 Journal of the Audio Engineering Society" pp. 463- 469, 1995
- "Measurement of Loudspeaker Parameters using a Laser Velocity Transducer- An Improve Method" Jorge N. Moreno and Henning Bøg – presented at the 91<sup>st</sup> Convention of the Audio Engineering Society, October de 1991. New York. Publication No. 3163 (S-3) 6M/S-3.
- Measurement of Closed Box Loudspeaker System Parameters Using a Laser Velocity Transducer an Audio Analyzer" Jønsson Søren; Moreno Jorge; Bøg Henning –presented at the 92<sup>nd</sup> Convention of The Audio Engineering Society, March 1992- Viena. Publication 3325 (1MI1.08)
- "Measurement of the Effective Radiating Surface Area of Loudspeaker using a Laser Velocity Transducer and a Microphone". Jorge N. Moreno; Richard Moscoso, Jønsson; Søren Jønsson (Presented at the 96th Convention of The Audio Engineering Society, (March 1994-Amsterdam). Publication 3861 (P10.4)
- "Acoustical Design of the Auditorium of the Law Department at the Pontificia Universidad Católica del Perú". Jorge N. Moreno, Carlos Jiménez, Rafael P. Piscoya (Presented at Fourth International Congress on Sound and Vibration - June 1996- San Petersburg). Included in the Proceedings del pp.363-368.
- "Measurement of Loudspeaker Parameters vs. Displacements using a Laser Velocity Transducer" Jorge N. Moreno presented at the Primer Congreso Iberoamericano de Acústica (First Iberoamerican Congress on Acoustics). April 1998. Florianópolis -Brazil. Includes in the Proceedings pp. 178-185.

- Estudio Preliminar Teórico -Experimental de las Características Acústicas del Cajón Peruano" Celso Llimpe, Jorge Moreno presented at the II Congreso Iberoamericano de Acústica - Octubre del 2000 Madrid - España. Proceedings ISBN: 84-87985-03-3
- "Las Flautas de Caral-Supe: Aproximaciones al Estudio Acústico - Arqueológico del Conjunto de Flautas más Antiguo de América", Shady Solís Ruth, Prado Ramirez Martha, Leiva Arroyo Carlos, Moreno Ruiz Jorge N. Jiménez Dianderas Carlos R. Llimpe Quintanilla Celso E. presentado en el II Congreso Iberoamericano de Acústica-Octubre del 2000 Madrid - España. Proceedings ISBN: 84-87985-03-3
- "Consideraciones Acústicas en el Nuevo "Centro de Entretenimiento Larco Mar" en Lima, Perú" Moreno Ruiz Jorge Néstor, Jiménez Dianderas Carlos Rolando, Nakano Higa Alberto Mitsuo, presented at the II Congreso Iberoamericano de Acústica-Octubre del 2000 Madrid-España. Proceedings ISBN: 84-87985-03-3
- "Diseño Acústico de los Ductos Verticales de Extracción de Humos del Centro de Entretenimiento Larco Mar", Moreno Ruiz Jorge Néstor, Jiménez Dianderas Carlos Rolando, Piaggio Henderson Miguel, en Lima, Perú" presented in the II Congreso Iberoamericano de Acústica-Octoberl 2000 Madrid - Spain. Proceedings ISBN: 84-87985-03-3
- An Over view of the Auditorium of the Department of Law of the Pontificia Universidad Católica del Perú Published in the book "Halls for Music Performance" *Acoustical Society of America* (2003 ) pp 98 – 99 ( ISBN 0-9744067-2-4 ).
- "Measured and Predicted Noise Levels in Surroundings of the "Jorge Chávez" International Airport in Lima Peru", Jorge Moreno, Carlos Jiménez, Celso Llimpe, Richard Rivera, Raul Medina, presented – August 2005, Rio de Janeiro – Brazil. Proceedings ISBN 85-87550-06-3
- "Noise Map of Traffic Flow in Old Town Lima, Peru", Celso Llimpe, Jorge Moreno, 19th International Congress on Acoustic Madrid 2-7 September 2007 (ICA Madrid-2007). Proceedings ISBN: 9781615677078
- "Introduction to the Acoustic Study of the Peruvian Quena", Llimpe Celso, Moreno Jorge, Piaggio Miguel, 19th International Congress on Acoustic Madrid 2-7 September 2007 (ICA Madrid-2007). Proceedings ISBN: 9781615677078
- "Subjective Study of Environmental Noise in Oldtown", Celso Llimpe, Jorge Moreno Lima, Peru. Internoise 2006 Honolulu, Hawaii USA. Proceedings ISBN: 9781604231366
- "Encuestas Sobre Molestias Causadas por Ruido en el Centro Histórico de Lima, Perú: Análisis Subjetivo Relacionada al Estudio Objetivo", Celso Llimpe Jorge Moreno, V Congreso Iberoamericano de Acústica. Santiago de Chile October 2006. proceedings ISBN: 80-228-1673
- La Contaminación por Ruido Ambiental en el Damero de Pizarro Lima Perú. V Congreso Iberoamericano de Acústica. Santiago de Chile October 2006. Proceedings ISBN: 80-228-1673
- "Vasijas Sonoras del Nuevo Mundo", Roxana Nuñez, Celso Llimpe, Jorge Moreno ,2009 Mexico, 53 Congreso Internacional de Americanista
- "Measurement of Loudspeaker Parameters Considering a Better Fitting for the Mechanical Impedance- A Fast Way to Do It", Moreno, J. N. y Medina,

V. R. (2013). AES 51st International Conference, Helsinki. Finland , August 2013: [www.aes.org](http://www.aes.org)

- “Behavior of the Real Part of The Mechanical Impedance of a Loudspeaker within the Piston Range Including the Effect of Acoustic Loading of the Magnetic Circuit- A Preliminary Study”. Jorge Moreno., Richard Rivera Presented in the 12th Congress of Audio Engineering, Sao Paulo Brazil, May 2014.

## **EDUCATION**

Primary and High School: Saint Rose School, Lima - Perú (Maryknoll Fathers - New York).

Academic Degrees: **B.Sc.** in Physics (Bachiller en Ciencias con mención en Física) by the Pontificia Universidad Católica de la Perú)

**M.Sc.** in Applied Physics (Magister en Física Aplicada) by the Pontificia Universidad Católica del Perú.

**Dr. Ing.** (Dr. Der Ingenieurwissenschaften) by TU Berlin-Germany

Professional Title: **Licentiate in Physics**

**AWARDS:** Fellow of the Audio Engineering Society

## **SOCIETIES**

1. Fellow of the Audio Engineering Society Inc. -membership number: M29712.
2. Member of the - Sociedad Peruana de Acústica (vice president).