### **Biographical Sketch**

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## **EDUCATION:**

University of Uruguay	Industrial and Mechanical Engineering	Ing.	(1979)
Stanford University	Mechanical Engineering	M.S.	(1981)
Stanford University	Mechanical and Electrical Engineering	Ph.D.	(1986)

### EXPERIENCE:

National High Magnetic Field Laboratory and Florida A&M University-Florida State University College of Engineering, Tallahassee, Florida (8/99 - present)

- Associate Professor, Mechanical Engineering
- Staff Scientist, Magnet Science & Technology

Bechtel Corp., San Francisco, California (5/92 – 8/99)

- Manager, Superconductivity and Magnet Technology, R&D Division (3/97 8/99)
- Project Manager, R&D Division (6/95 3/97)
- Engineering Specialist, R&D Division (5/92 6/95)

Stoner Associates, Inc., San Francisco, California (9/89 – 5/92)

• Director of Software Development

Bechtel Corp., San Francisco, California (6/86 – 9/89)

• Senior Engineer, Research & Development Division

### <u>PUBLICATIONS (Selected from > 40 (refereed)):</u>

- 1. L. Bottura and C.A. Luongo, "Stability in Forced Flow Superconductors," in <u>Wiley</u> <u>Encyclopedia of Electrical Engineering</u> (J. Webster, Editor), John Wiley & Sons (New York), vol. 21, pp. 87-98 1999
- C.A. Luongo, "Superconducting storage systems: An overview," <u>IEEE Transactions on</u> <u>Magnetics</u>, Vol. 32, No. 4, pp. 2214-2223, 1996 (Invited Plenary Session paper presented at the 14th Magnet Technology Conference, Tampere, Finland, June 11-16, 1995)
- C.A. Luongo, "Review of the Bechtel Team's SMES Design and Future Plans for a Technology Demonstration Unit," <u>IEEE Transactions on Applied Superconductivity</u>, vol. 5, pp. 422-427, 1995
- 4. C.A. Luongo, "Simulation and tests of quench in CICC: The SMES experience," Journal of Fusion Energy, Vol. 14, No. 1, pp. 103-112, 1995

- 5. C.A. Luongo, C.L. Chang, and K.D. Partain, "A Computational Model Applicable to the SMES/CICC," <u>IEEE Transactions on Magnetics</u>, vol. 30, pp. 2569-2572, 1994
- C.A. Luongo, K.D. Partain, J.R. Miller, G.E. Miller, M. Heiberger, and A. Langhorn, "Quench Initiation and Propagation Study (QUIPS) for the SMES-CICC," <u>Cryogenics</u>, vol. 34 (ICEC), pp. 611-614, 1994
- S.D. Peck, J. Zeigler, and C.A. Luongo, "Tests on a 200 kA Cable-in-Conduit Conductor for SMES Application," <u>IEEE Transactions on Applied Superconductivity</u>, vol. 4, pp. 199-204, 1994
- C.A. Luongo, R.J. Loyd, F.K. Chen, and S.D. Peck, "Thermal-Hydraulic Simulation of Helium Expulsion from a Cable-in-Conduit Conductor," <u>IEEE Transactions on</u> <u>Magnetics</u>, vol. 25, no. 2, pp. 1589-1595, 1989
- C.A. Luongo, R.J. Loyd, and C.L. Chang, "Current Diffusion Effects on the Performance of Large Monolithic Conductors," <u>IEEE Transactions on Magnetics</u>, vol. 25, no. 2, pp. 1576-1581, 1989
- 10. C.A. Luongo and C.H. Kruger, "Slag/Seed Interaction in Coal-Fired MHD Generators," <u>AIAA Journal of Propulsion and Power</u>, vol. 2(6), pp. 521-527, 1986

# OTHER:

- Program Chair, 2004 Applied Superconductivity Conference
- Visiting Scholar with the Institute for Plasma Physics, Chinese Academy of Sciences, Hefei, China. Conducted a 2-week seminar on magnet technology and design. May 1999
- Technical Committee member, CHATS 2002, 2000 and 1997 (Workshop on Computation of Thermo-hydraulic Transients in Superconductors), organizer of CHATS-97
- Editor and Program Committee member, 16<sup>th</sup> Magnet Technology Conference (1999)
- Editor and Program Committee member, 1998 Applied Superconductivity Conference
- Editor, 1996 Applied Superconductivity Conference
- Associate Professor of Mechanical Engineering (FAMU-FSU College of Engineering) in charge of developing curriculum for the Senior Design Course