

New Associate Editor

Eder Cavalheiro

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Workplace

Universidade de São Paulo, Instituto de Química de São Carlos, Av. do Trabalhador São Carlense, 400, 13566-390, São Carlos/SP, Brasil

Education

• Universidade de São Paulo	Licentiate in Chemistry	1983
• Universidade de São Paulo	Bachelor in Chemistry	1983
• Universidade de São Paulo	Master in Sciences (Analytical Chemistry)	1987 (advisor Prof. Dr. Gilberto O. Chierice)
• Universidade de São Paulo	Doctor in Sciences (Analytical Chemistry)	1995 (advisor Prof. Dr. Gilberto O. Chierice)
• Universidade de São Paulo	Livre Docente	2004

E. Cavalheiro (✉)
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Appointments

- Associate Professor, Instituto de Química de São Carlos, USP, São Carlos, SP, Brazil, 2002–present
- Assistent and Associate Professor, Universidade Federal de São Carlos, São Carlos, SP, Brazil, 1994–2002
- Postdoctoral Fellow, University of Florida, Gainesville, Florida, USA, 1997/1998, supervisor Profa. Dra. Anna Brajter-Toth

Research Interest

- *Thermal analysis*: biopolymers, pharmaceuticals, and material science
- *Electroanalysis*: development of new electrode materials and its application in analytical procedures
- *Analytical chemistry education*

Teaching Courses

Undergraduate

- General Chemistry
- Qualitative Analytical Chemistry: theory and laboratory
- Quantitative Analytical Chemistry: theory and laboratory
- Instrumental Analysis

Graduate

- Advanced Analytical Chemistry
- Thermal Analysis
- Electroanalytical Techniques

Graduate Students and Post-Doctoral Supervision

- Concluded
Master: 22
Doctoral: 9
Post docs: 7
- In due course
Master: 1
Doctoral: 8
Post docs: 1

Recent Publications (Out of 130)

1. R.S. Nunes, F.S. Semaan, A.T. Riga, **E.T.G. Cavalheiro**. Thermal behavior of verapamil hydrochloride and its association with excipients. *J. Therm. Anal. Calorim.*, 97 (2009) 349–353.
2. L.C. de-Carvalho, M.P. Segato, R.S. Nunes, C. Novak, **E.T.G. Cavalheiro**. Thermoanalytical studies of some sweeteners. *J. Therm. Anal. Calorim.*, 97 (2009) 359–365.
3. I. Cesarino, G. Marino, **E.T.G. Cavalheiro**, R.F. Nogueira, A.G. Ferreira. Preparation and characterization of amorphous silica organofunctionalized with 2-mercaptobenzimidazole. *Mater. Sci. Forum*, 636–637 (2010) 793–797.
4. I. Cesarino, **E.T.G. Cavalheiro**, C.M.A. Brett. Simultaneous determination of cadmium, lead, copper and mercury ions using organofunctionalized SBA-15 nanostructured silica modified graphite–polyurethane electrode. *Electroanalysis*, 22 (2010) 61–68.
5. G. Bannach, P. Cervini, **E.T.G. Cavalheiro**, M. Ionashiro. Using thermal and spectroscopic data to investigate the thermal behavior of epinephrine. *Thermochim. Acta*, 499 (2010) 123–127.
6. I. Cesarino, G. Marino, **E.T.G. Cavalheiro**. A novel graphite–polyurethane composite electrode modified with thiol-functionalized silica for the determination of copper ions in ethanol fuel. *Fuel*, 89 (2010) 1883–1888.
7. I. Cesarino, C. Gouveia-Caridade, R. Pauliukaite, **E.T.G. Cavalheiro**, C.M.A. Brett. Characterization and application of bismuth-film modified graphite–polyurethane composite electrode. *Electroanalysis*, 22 (2010) 1437–1445.
8. R.C. da-Silva, **E.T.G. Cavalheiro**, G.O. Chierice. Solution stability and thermal degradation of some cyclic dithiocarbamates. *J. Indian Chem. Soc.*, 87 (2010) 245–252.
9. I. Cesarino, **E.T.G. Cavalheiro**, C.M.A. Brett. Characterization of a graphite–polyurethane composite electrode modified with organofunctionalized SBA-15 nanostructured silica in the presence of heavy metal

ions. Application to anodic stripping voltammetry. *Microchimica Acta*, 171 (2010) 1–9.

- 350 communications in scientific meetings and conferences
- 2 book chapters
- 43 lectures and conferences on the research interest fields

Synergistic Activities

1. President of the Graduate Commission of IQSC/USP, 2006–present;
2. Secretary of International Confederation on Thermal Analysis and Calorimetry, 2006–present;
3. Vice-President of Brazilian Association of Thermal Analysis and Calorimetry, 2004–2006;
4. Secretary of Brazilian Association of Thermal Analysis and Calorimetry, 2002–2004;

Research Grants in the Last 5 years

FAPESP, 2005–2008. Thermoanalytical Studies on biopolymers, dithiocarbamates, and fatty acids.

CNPq, 2005–2007. Development of spectrophotometric and voltammetric methods for determination of antihypertensive drugs.

FAPESP, 2006–2010. Development of polyurethane/graphite and silicone rubber/graphite composite electrodes.

FAPESP, 2007–2010. Dynamic-mechanical investigation of dental and polyurethane resins properties.

PETROBRAS-USP, 2009–2011. Thermal analysis of fuels.

FAPESP, 2010–2012. Development of sensors for metallic species in ethanol fuel and pharmaceuticals.

Memberships and Activities in Professional Associations

Member of the following Professional Societies:

- Brazilian Chemical Society
- International Confederation of Thermal Analysis and Calorimetry
- Brazilian Association of Thermal Analysis and Calorimetry
- International Society of Electrochemistry

Scientific Collaborators

- Dr. Christopher M. A. Brett, Universidade de Coimbra, Portugal

- Dr. Carla Cristina Schmitt Cavalheiro, Universidade de São Paulo, Brazil
- Dr. Gilberto Orivaldo Chierice, Universidade de São Paulo, Brazil
- Dr. Edward Ralph Dockal, Universidade Federal de São Carlos, Brazil
- Dr. Orlando Fatibello-Filho, Universidade Federal de São Carlos, Brazil
- Dr. Massao Ionashiro, Universidade Estadual Paulista, Brazil
- Dr. Csaba Novak, Budapest Technical University, Hungary
- Dr. Alan T. Riga, Ohio State University, USA

Web Homepages

- <http://www.iqsc.usp.br>
- e-mail: cavalheiro@iqsc.usp.br

Personal

Born: City of Ribeirão Preto, State of São Paulo, Brazil, April 4, 1962

Married with Prof. Dra. Carla Cristina Schmitt Cavalheiro

Two daughters: Raquel Schmitt Cavalheiro and Cristina Schmitt Cavalheiro

Hobby Activities

- Photography, running, riding bikes