

2010 Winter Conference on Plasma Spectrochemistry Fort Myers, Florida, January 4 – 9, 2010

CONFERENCE PRESENTATION TITLE AND ABSTRACT SUBMISSION FORM

I (we) plan to submit a paper as a ☐ lecture (15 min), ☐ poster, ☐ computer poster, ☐ either.

TITLE Nanometal-oxide sunscreen agents by capillary electrophoresis -inductively coupled plasma mass spectrometry

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Please type a 50-word descriptive abstract, sign below, and return this form by July 10, 2009, to 2010 Winter Conference, Attn: R. Barnes, ICP Information Newsletter, P.O. Box 666, Hadley, MA 01035-0666, or 18241 Beauty Berry Ct., Lehigh Acres, FL 33972-7525 USA; fax (239) 674-9431, e-mail wc2010@chem.umass.edu

Capillary electrophoresis with detection by ICPMS is being explored to characterize nanomaterials in waste water treatment plant effluents. TiO_2 and ZnO , being widely used as UV filters in personal care products, plastics, and paints, are of concern as they enter the environment. CE-ICPMS is a potential approach to evaluate possible sources of exposure. Preliminary results will be presented here.

CLASSIFICATION. Which of the following best describes your paper?

A. Symposium:

☐ Sample introduction/transport phenomenon, ☐ Micronebulizers, flow processing, ☐ Elemental speciation, ☐ **Chromatography and plasma detectors**, ☐ Automation and plasma instrumentation, ☐ Artificial intelligence, Chemometrics, Software, ☐ On-line and remote analysis, ☐ Sample preparation and treatment, ☐ Spectroscopic standards and reference materials, ☐ Excitation mechanisms and plasma phenomena, ☐ Laser-assisted plasma spectrochemistry, ☐ Glow discharge, ☐ Teaching spectroscopy, ☐ Plasma source mass spectrometry, ☐ Stable isotope analysis, ☐ Quality assurance.

B. Application:

☐ Agriculture/Botany, ☐ Biology, ☐ Chemicals, ☐ Energy, ☐ **Environment**, ☐ Food, ☐ Geology, ☐ High-purity materials, ☐ Industrial products, ☐ Medicine/Clinical/Forensic, ☐ Metals, ☐ Petroleum, ☐ Semi/superconductor, ☐ Stable isotopes, ☐ Water, ☐ Other _____; ☐ Workshop on New Plasma Instrumentation

PUBLICATION. Which of the following best describes your intentions for publication of the proposed paper?

☐ submission to Conference proceeding journal:

☐ Analytical and Bioanalytical Chemistry or ☐ Journal of Analytical Atomic Spectrometry.

☐ submission to ICP Information Newsletter. ☐ submission to another journal. ☐ no plan to submit manuscript.

CERTIFICATION.

I (we) certify that the material to be presented represents original research or development, which at the time of the Conference will previously not have been published or presented in public.

SIGNATURE _____ DATE _____

COMPLETE MAILING ADDRESS (if not included above):

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Received: Manuscript No. Paper Registration 2010-_____-_____