SMART COATINGS

ADVANCED COURSE

PROFESSOR R. ADVINCULA
(Instructor)
University of Houston,
USA

LOCAL ADVISOR:
Prof. Joao Delgado
Porto University,
Portugal
jdelgado@fe.up.pt

30 JUNE - 01 JULY, 2011 (2 DAYS COURSE) / ALGARVE-PORTUGAL
COURSE OBJECTIVES:
The goal is to teach the state of the art and fundamentals in smart coatings based on stimuli-responsive coatings, nanostructured, and nanocomposite coatings.

This will start with a review of various methods of coatings fabrication, their unique properties, and immediately on current and potential applications. This includes self-cleaning coatings, sensing coatings, new conducting coatings, and nanocomposite barrier coatings.

A number of companies involved and university research will be highlighted.

At the end of the course, the participants will gain update of the state-of-the-art but also the fundamentals of fabrication and characterization of such coatings.

WHO SHOULD ATTEND THE COURSE
Participants from both industry and academe will benefit for this course. This is geared towards researchers who are interested in innovation of new products and at the same time in learning some fundamentals about this coatings and materials. Ideal for up-to-date knowledge and survey of the emerging field.

PRELIMINARY SUGGESTED READINGS:

COURSE CONTENTS:
- Polymer and Coatings Basics
- Nanostructured Materials and Thin Films
- Stimuli-responsive Coatings
- Characterization of Coatings
- Applications and Beyond
About

PROFESSOR RIGOBERTO C. ADVINCULA
Department of Chemistry and
Department of Chemical Engineering
University of Houston, Houston, Texas 77204
USA
www.nanostructure.uh.edu

RESEARCH area: Design, synthesis, and characterization of polymers and nanostructured materials capable of controlled-assembly, tethering, and self-organization in ultrathin films. This includes functional macromolecules, coordination polymerization, polymerization on surfaces, electropolymerization, and preparation of nanoparticles and hybrid materials. Properties include: smart coatings, electrically conducting, photoluminescent, electroluminescent, energy harvesting, optically active, and biocompatible. Surface sensitive spectroscopy and microscopy is systematically utilized to probe materials properties and biological phenomena.

… also involved in investigating nanoparticles, nanostructured surfaces, and nanocomposite materials for sensor and bioapplications. Other applied studies include packaging, coatings, biomaterials, plastics, and process development.

INDUSTRIAL EXPERIENCE:

• Short and long-term industrial projects, analysis, development, collaborative proposals, litigation, and tutorials.
RECENT PUBLICATIONS:

Total Publications Lifetime: 319 and 9 Patents


COURSE VENUE

Hilton Vilamoura As Cascatas Golf Resort & Spa
Rua da Torre d'Agua, Lote 4.11.1B
8125-615 Vilamoura
Quarteira, Algarve
Portugal

Special Rates for course participants!
Contact us!
REGISTRATION FEE: 680, EUR *

(*) Registration includes:
✓ 2 full days course,
✓ Printed Course Materials, in book format
✓ Course Certificate,
✓ 2 refreshments daily,
✓ Lunch at Hotel Venue (daily / 2 days)

REGISTRATION FEE:
Early registration = 680, EUR * (till 15 March, 2011)
After = 980 EUR *

CONTACT:
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LOCAL ADVISOR:
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LFC – Laboratório de Física das Construções,
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NOTE: this course is limited to a small number of participants, reserve your place soon!

IRONIX - CONTINUING EDUCATION:
SMART COATINGS
30 JUNE - 01 JULY, 2011 / ALGARVE-PORTUGAL

Please print or type all information on this form and send us back by Fax or e-mail:
FAX: ++00 351 234 410 097
E-mail: registration@ironix-conferences.com

REGISTRATION FORM

□ Prof. □ Dr. □ Mr. □ Ms.

Your Full Name
E-mail

Department
Institution / Company Name
Mailing Address
City                                      Zip / Postal Code
Country
Early registration = 680, EUR * (till 15 March, 2011)
After = 980, EURO*

PAYMENT CAN BE DONE BY BANK TRANSFER or BY CREDIT CARD:
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NIB: (Only for transfer inside of Portugal) 007900002608377210197

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Credit Card Number:_____________________________________
Expiration Date (Month/Year):_____________________________
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Signature / Date (AUTHORIZATION)

(* ) Registration cancellations must be received by March 30, 2011 for a Refund and note that a 100 EURO administrative fee is not refundable. Please note that refunds will be done after the EVENT for administrative reasons.