

December Dinner Meeting Recap

Greg Nelson

ASM Edmonton welcomed Dr. Weixing Chen of the University of Alberta. Dr. Chen presented to over 30 attendees on *Near Neutral pH Stress Corrosion Cracking of Pipeline Steels* for the final dinner meeting of 2014. The meeting was attended by a mixture of industry members and students. Dr. Chen discussed a complete theory for Near Neutral pH Stress Corrosion Cracks including initiation, growth, and software modeling. Dr. Chen's presentation was thoroughly engaging and had many good questions from the audience.



Dr. Weixing Chen presenting at the December Dinner Meeting

If you have any ideas for future technical speakers or topic please don't hesitate to contact us at ASM.Edmonton@gmail.com

January Event

ASM Technical Dinner Meeting

For the next technical dinner meeting of the season, ASM Edmonton will be welcoming the 2014 Brian Ives Lecturer - Dr. Federico Rosei who will be speaking on the *What Type of Energy for the Future of Humanity*.

Abstract

As the age of cheap oil and fossil fuels is coming to an end, humanity will face an energy crisis. Many alternative energy sources have already been identified. However, there is no optimal solution to replace fossil fuels on a short time scale with new sources that are economically viable and environmentally sustainable in the long term. History reports disastrous consequences for human societies that exploited their resources in a non-sustainable way, and arguably this is exactly what is happening today on a global scale. Evidence for climate change is overwhelming. This lecture aims at describing a general picture of

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the looming energy crisis, particularly to promote awareness. Potential solutions are discussed, involving the use of advanced materials and nanotechnology for energy saving, energy storage and energy conversion. The bottom-up approach is considered a potential alternative for low cost manufacturing of nanostructured materials. It is based on the concept of self-assembly of nanostructures on a substrate, and is emerging as an alternative paradigm for traditional top down fabrication used in the semiconductor industry.

About the Speaker



Dr. Federico Rosei has held the Canada Research Chair in Nanostructured Organic and Inorganic Materials since 2003. He is Professor and Director of Institut National de la Recherche Scientifique, Énergie, Matériaux et Télécommunications, Université du Québec, Varennes (QC) Canada. Since January 2014 he holds the UNESCO Chair in Materials and Technologies for Energy Conversion, Saving and Storage. He received MSc and PhD degrees from the University of Rome

“La Sapienza” in 1996 and 2001, respectively. His research interests focus on the properties of nanostructured materials, and on how to control their size, shape, composition, stability and positioning when grown on suitable substrates.

He is Member of the European Academy of Sciences, Fellow of the American Association for the Advancement of Science, Fellow of the Royal Society of Chemistry (UK), Fellow of the Institute of Physics, Fellow of the Institution of Engineering and Technology, Fellow of the Institute of Materials, Metallurgy and Mining, Fellow of the Institute of Nanotechnology, Senior Member of the IEEE, Fellow of the Engineering Institute of Canada, Member of the Global Young Academy, Fellow of the Australian Institute of Physics, Senior Member of SPIE and Member of the Sigma Xi Society.

Dates and Times:

Date: Thursday, January 22, 2015

Registration: 6:00 PM

Dinner: 6:30 PM

Technical Program 7:30 PM

Location: University of Alberta Faculty Club

RSVP by January 20, 2014, to: ASM.Edmonton@gmail.com

Upcoming Events

2015 Events:

Thursday, February 19, 2015

Speaker: Gary Fisher

Topic: Upcoming Developments in Surface Coating Technologies for Wear

Location: U of A Faculty Club

Thursday, March 23, 2015

Joint AWS Technical Talk

Location: U of A Faculty Club

April, 2015

Speaker: George Vander Voort

Location: U of A Faculty Club

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Costs:

Students: \$10

Professional Members: \$25

Non-Members \$35

Payment can be made by cash or cheque. Payment by credit card can only be made in advance of the meeting and there will be a nominal fee of \$1.50 to cover the processing cost. For more details regarding this payment option please contact us at ASM.Edmonton@gmail.com

Feedback

The ASM Edmonton Executive is continually working to improve this newsletter in order to better serve our members. If you have any suggestions or comments regarding the newsletter or if you would like anything included please contact us [here](#).

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