

March Dinner Meeting Recap

March Meeting Recap – James Derksen

ASM Edmonton's latest technical dinner meeting welcomed Dr. André McDonald. André Presented some of the challenges and situations where thermal sprayed composite materials may be useful. André is an associate professor in the Department of Mechanical Engineering and the University of Alberta. His talk included an overview of the uses of thermal sprayed composites and how they may be produced. There were 12 attendees with many interesting questions pushing real world applications of thermal sprayed composites.



Dr. André McDonald at the ASM Edmonton Chapter March 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

April 2016 Event

ASM Dinner Meeting

For the next ASM technical dinner meeting of the season, ASM Edmonton will be welcoming Dr. T.S. Sudarshan who will be speaking on *What Materials Scientists can Learn from Nature*.

Abstract

Nature has perfected the form, shape and surfaces of every conceivable structure. The vast magnitude of lessons to be learned in the area of structural and surface modification continues to be an inspiration to engineers who build things from the top down while nature works from the bottom up. The recent advances in nanotechnology coupled with modeling, imaging, diagnostics and sensors provide a spectrum of capabilities to emulate nature. In this talk, I will highlight specific examples of the intelligent use of materials by nature and its ability to modify a surface for many functional uses. The industrial applications of these approaches as well as the numerous challenges and areas of research for young scientists and engineers will also be addressed.

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Biography



Dr. T.S. SUDARSHAN is currently the President and CEO of Materials Modification, Inc. He received his B.Tech. in Metallurgy from the Indian Institute of Technology in Madras, India, and his M.S. and Ph.D. in Materials Engineering Science from Virginia Tech. He worked with Ashok Leyland in the Truck and Bus division as a Senior Metallurgist and later as the Director of R and D at Synergistic Technologies Richmond, Va. For the past 28 years he has been responsible for the management and technical development of innovative materials, processes, and techniques and the development of new technologies related to surface engineering and nanotechnology. His affiliation with ASM started in 1984 and he has been active for over two decades in various committees and is currently the Chair of the ASM-IIM lectureship committee. He also chaired the Surface Engineering Critical Technology sector and has been a member of IMR, JMEP, AMP and Awards committees and is a recently elected member of the ASM Board of Trustees.

Price:

\$30 for members of the affiliated societies (ASM, AWS, NACE, CWS, SME and CSME);
\$10 for students;
\$40 for non-members.
Note: Eventbrite adds a small surcharge.

Dates and Times:

Date: Thursday, April 28th, 2016
Location: Faculty Club, University of Alberta,
11435 Saskatchewan Drive

Schedule:

Registration 6:00 PM
Dinner 6:30 PM
Program 7:30 PM

Register now through <https://asm-edmonton-april.eventbrite.com/>
For further questions contact 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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