

INCOSE Chesapeake Chapter
International Council on Systems Engineering

NUCLEAR &
PLASMA SCIENCES
SOCIETY

cordially invites you to a Joint **Monthly Dinner and Lecture**

Wednesday, 18 September 2013 (6:00 – 8:00 pm)

The AP1000, A Third Generation Nuclear Reactor

Andrew Drake, Director, AP1000 Engineering Completion Project

**Location: Applied Physics Laboratory, Johns Hopkins University
11100 Johns Hopkins Rd Laurel MD 20723 (Main Entrance – Lobby 1)**

Presentation: Since the first nuclear powered submarine (USS Nautilus - 1954) and first commercial nuclear power electrical generation station (Shippingport, PA – 1957) Westinghouse has been the industry leader in the development/evolution of larger and safer commercial nuclear power electrical generation stations. The early commercial nuclear power plants were typically less than 600 Megawatt electric two-loop plants that were “upsized” to 3-loop and then to 4-loop plants. As plants were “upsized” the size and complexity of the structures, components and instrumentation grew. In the late 80s Westinghouse recognized that a different “simplified” design was needed if nuclear power was to remain an economical source of electricity. This presentation will cover major differences between the previous generation of plant designs and the Westinghouse AP1000™ and the status of AP1000™ plants currently under construction.

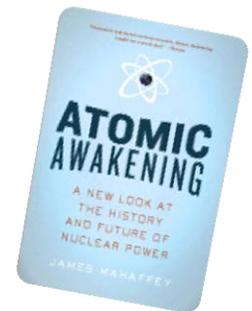


Speaker: Andrew Drake has thirty-two years’ experience in nuclear industry. Eight years of experience in commercial Pressurized Water Reactor operations, training and training material development including Senior Reactor Operator (SRO) Certification, SRO Instructor Certification. Fifteen years of experience in project management including resource planning, program/project scheduling, cost management and invoicing. Sixteen years in various management/senior management positions related to major new plant construction/startup projects. Andrew has a BS in Physics and a MS in Nuclear Engineering. He is a certified Project Management Profession (PMP) and currently President of the Plum Borough School Board.

Presentation ONLY: FREE at 7pm in Parsons Auditorium

Delicious friendly networking buffet dinner at 6 pm: Bistro Steak Salad and Honey Mustard Chicken Wonton Salad Buffet, rolls and butter, dessert, coffee and iced tea.

Dinner Cost: Guests: **\$25**; INCOSE and IEEE NPSS members: **\$20** if payment is received by September 13th, 2013, **\$25** afterwards. To pay by credit card or PayPal, visit our registration webpage for details: <http://www.incose-cc.org/registration/>



[Door Prize for this month](#)



Live Entertainment: Provided by the APL Jazz group for those arriving early for the lecture in the Parsons Auditorium

Corporate Sponsor: We wish to thank the Applied Physics Laboratory for supporting the systems engineering profession through use of their facilities

Our Evening's Agenda

5:45 – 6:00 pm	Arrival and Socializing
6:00 – 6:45 pm	Dinner
6:45 – 6:50 pm	Member Introductions
6:50 – 6:55 pm	Chapter Business Items
7:00 – 8:00 pm	Lecture

Directions: JHU APL, 11100 Johns Hopkins Road, Laurel, Maryland 20723, Phone (443) 778-5000

See APL's Visitor Guide for more: <http://www.jhuapl.edu/newscenter/visitor/default.asp>

From Washington DC and Capital Beltway (I-495):

Take I-95 North toward Baltimore, 10 miles to Columbia exit (MD Route 32 West),

Go 2.5 miles to the Washington DC exit (US Route 29 South).

Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).

Or from the Capital Beltway (I-495):

Take US Route 29 North (Colesville Road) 10 miles and follow signs for the turn onto Johns Hopkins Road.

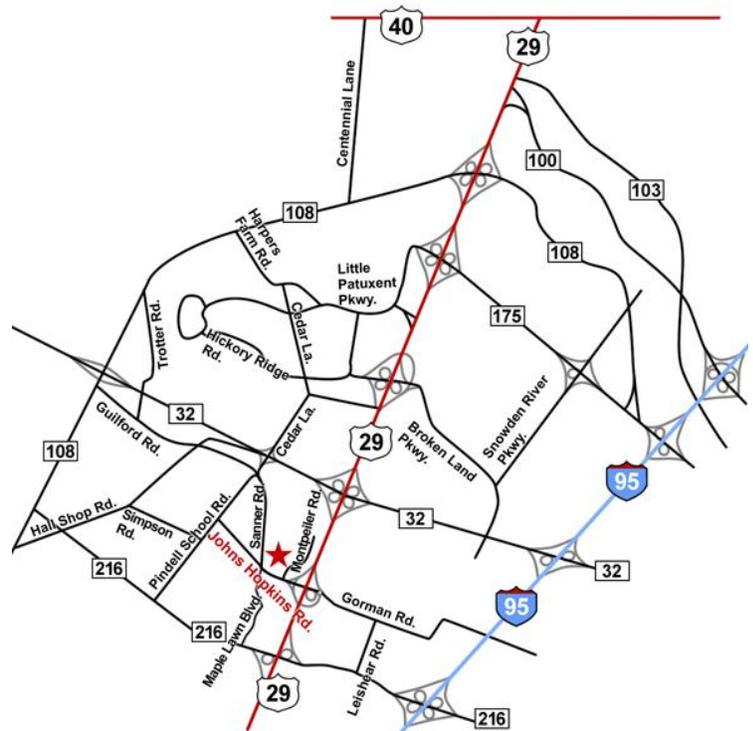
From Baltimore and Baltimore Beltway (I-695):

Take I-95 South toward Washington DC.

Go 13 miles and take Columbia exit (MD Route 32 West).

Go 2.5 miles and take Washington DC exit (US Route 29 South).

Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).



Once you're on Johns Hopkins Road:

APL is a half-mile west of US Route 29 on your right side. Go past the first entrance, continuing past the pond and take the next right turn onto a tree-lined lane. Park in the visitor's lot on your left side. Enter at the main entrance marked **Building 1** (flagpoles and traffic circle in front).

Dinner is held in the Howard County Room #3 located at the end of the cafeteria hallway to the right of the entryway just before the Guard's desk.