



CHICAGO SECTION

ASABE & SAE CHICAGO SECTIONS June 3, 2009 Joint Meeting



- WHAT:** **Center for Transportation Research – Energy Systems Division**
- *Well-to-Wheels Analysis and Results of Biofuels and Plug-in Hybrid Electric Vehicles - Presentation by Dr. Michael Wang*
 - *Tour to Follow Presentation*

WHEN: Wednesday, June 3 at 5:30 PM

WHERE: Argonne National Lab
9700 S. Cass Ave.
Argonne, IL
Advanced Photon Source Building 402
Room A1100
www.anl.gov

TO REGISTER: Contact Dan Karlak at:
(630) 887-3083
dan.karlak@cnh.com

Please register by 3:00 pm, Monday JUNE 1, 2009!

IMPORTANT NOTE!

A photo I.D., such as a driver's license or passport, is required for site access. All non-US citizen attendees MUST ALSO send a completed Foreign National Access Request form. This document is attached. Argonne requests a 3 week lead time for approval. So please forward to any non US citizens attending the meeting. **The completed form should be submitted by May 8th.**

SCHEDULE:

- 5:30 Registration & Dinner
- 6:30 ASABE Officer Elections
- 6:45 Presentation by Dr. Michael Wang
- 7:30 Tour
- 9:00 Conclusion of Tour

COST: \$15 (\$10 Students)
Guests Welcome!

MENU: Boxed Lunch with Choice of American Deli Roast Beef, Do it the Italian Way or Vegetarian Sandwich, Cookies, Beverages

The United States imports more than 60% of its oil from other countries. To reduce transportation's oil consumption and CO2 emissions, major R&D efforts are under way to develop and commercialize biofuels and plug-in electric vehicles (PHEVs). In 2007, the U.S. produced 6.5 billion gallons of fuel ethanol for blending with gasoline — virtually all of which is produced from corn. The 2007 Energy Independence and Security Act establishes the targets of 15 billion gallons of corn ethanol production in the U.S. by 2015 and 21 billion gallons of advanced biofuel production by 2022. On the other hand, PHEVs can be recharged from grid electric power to displace gasoline use for the first part of the daily trips by them. General Motors plans to introduce the first commercial PHEV – GM Volt – in 2010.

Since 1995, the transportation group at Argonne has been studying the energy and greenhouse gas (GHG) emission impacts of advanced vehicle technologies and new transportation fuels. Argonne has developed the GREET model for well-to-wheels (WTW) of vehicle/fuel systems. Argonne has applied the GREET model to examine energy and CO2 emission effects of biofuels and PHEVs for U.S. Department of Energy. This presentation will summarize updated WTW results of biofuels and PHEVs.

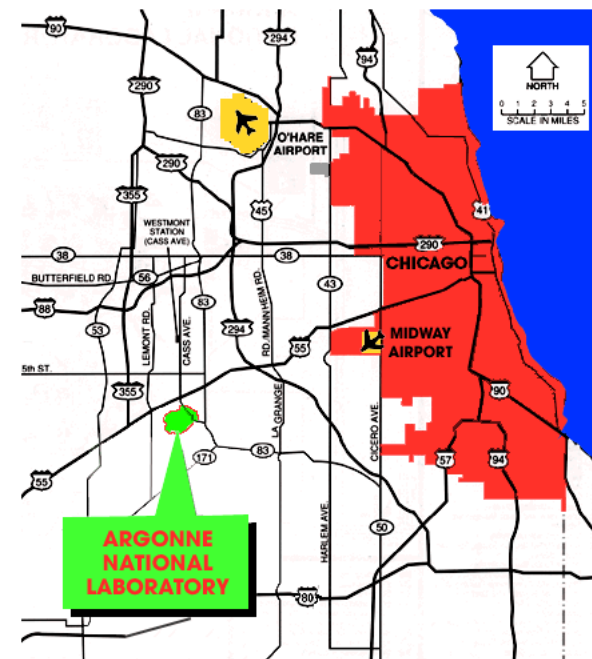
Michael Wang obtained his Ph.D. in environmental science from University of California at Davis. He has been working at Argonne National Laboratory since 1991. Dr. Wang is the developer of the GREET model at Argonne. He is a senior scientist and the section leader of the Systems Assessment Section of Center for Transportation Research, Argonne National Laboratory. He and his team have conducted well-to-wheels analyses since 1995 for U.S. Department of Energy, U.S.



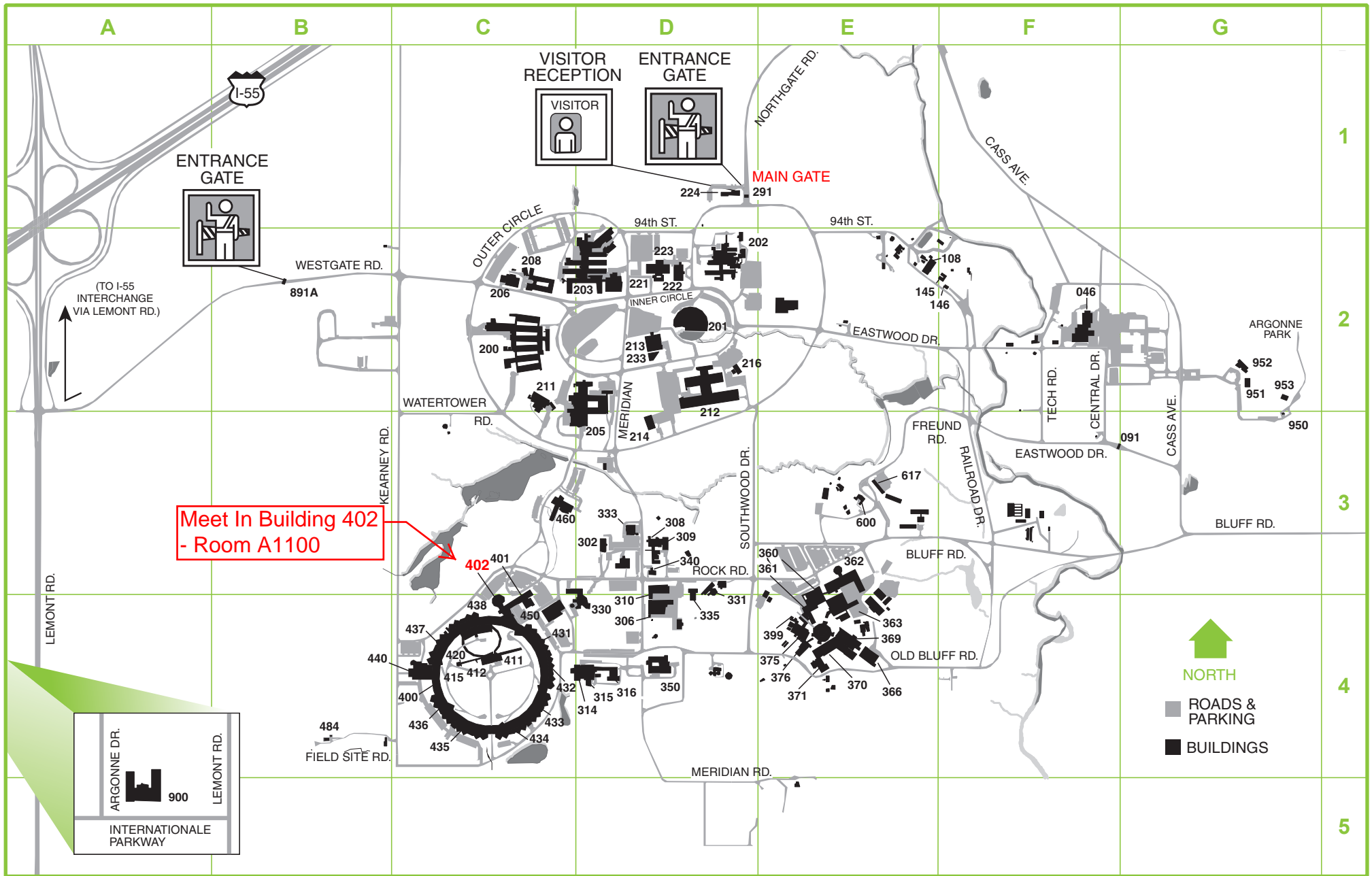
Environmental Protection Agency, General Motors, among many other organizations. He has more than 170 publications.

DIRECTIONS & MAP:

Please enter Argonne at the Northgate entrance off of Cass Ave. From I-55 exit south on Cass Ave. (4 miles west of I-294) and turn right at the Argonne sign on Northgate Road, immediately south of I-55. Follow Northgate Road to the Argonne Information Center and guard post. Proceed directly to the guard post after 5:00 PM. A photo I.D., such as a driver's license or passport, is required for site access. Allow ample time to pass through security.



This meeting will count for 2 Professional Development Hours. A signed receipt from ASABE will be available for you when you pay your admission.



BUILDING LOCATOR (Building Number – Grid Location)

East Area	100 Area	200 Area	206 – C2	221 – D2	300 Area	310 – D4	333 – D3	360 – E4	370 – E4	400 Area	412 – C4	433 – C4	438 – C4	600 Area	OFFSITE	
046 – F2	108 – E2	200 – C2	208 – C2	222 – D2	302 – D3	314 – D4	335 – D4	361 – E4	371 – E4	400 – C4	415 – C4	434 – C4	440 – C4	600 – E3	900 Area	951 – G2
091 – G3	145 – F2	201 – D2	211 – C2	223 – D2	306 – D4	315 – D4	340 – D3	362 – E3	375 – E4	401 – C4	420 – C4	435 – C4	450 – C4	617 – E3	900 – A5	952 – G2
	146 – F2	202 – D2	212 – D2	224 – D1	308 – D3	316 – D4	350 – D4	363 – E4	376 – E4	402 – C4	431 – C4	436 – C4	460 – C3		950 – G3	953 – G2
		203 – D2	213 – D2	233 – D2	309 – D3	331 – D4		366 – E4	399 – E4	411 – C4	432 – C4	437 – C4	484 – B4			
		205 – D2, D3	214 – D3	216 – D2				369 – E4						800 Area		
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