



**AMERICAN INSTITUTE OF
CHEMICAL ENGINEERS**

**The American Institute of Chemical Engineers
Mid-Michigan Chapter**
cordially invites you to a lunch meeting on
Tuesday, February 7, 2006

Thermodynamic Models in Simulations

Speaker: *Fred Justice, P.E., Chemstations, Inc.*

Fred Justice of Chemstations Inc. give a talk on thermodynamic models in simulations: Selecting the wrong thermodynamics for simulations assures that wrong answers will be calculated. This talk briefly explains the categories of thermodynamic methods; gives some criteria to short list the methods to test; and some real world tests to confirm which of the methods give answers as close as possible to the actual performance of the plant.

Date: **Tuesday, February 7, 2006**

Time: 11:30 a.m.–12:00 p.m.: Lunch begins
12:00 p.m.–12:35 p.m.: Presentation
12:35 p.m.–12:45 p.m.: Questions from the audience

Location: Dow Corning conference room 166
S. Saginaw Road, Midland; enter the cafeteria entrance

Menu: Buy a lunch from the Dow Corning cafeteria or bring your own.

RSVP: Non-employees of Dow Corning please RSVP by Monday, February 6 to Brett Birchmeier (bbirchmeier@dow.com) so a roster may be provided to security.

FRED C. JUSTICE, P.E.

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Saginaw, Michigan 48603

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EDUCATION

International Marketing Programme	Emmanuel College, Cambridge, UK	1981
MBA Marketing	Central Michigan University, Mount Pleasant	1971
MS Chemical Engineering	State University of New York at Buffalo	1966
BChE Chemical Engineering	University of Detroit	1963

LICENSURE

Registered Professional Engineer, State of Michigan

PROFESSIONAL/CIVIC

American Institute of Chemical Engineers

- Marketing Division Chairman, 1987
- 1st Vice Chairman, 1986
- 2nd Vice Chairman, 1985
- "Founding Director," 1981-1983
- Division Formation Committee, 1980
- Division Definition Committee, 1979
- Honors: National A.I.Ch.E. Membership Award for Divisions, 1981, 1982, 1983 and 1984

American Society for Engineering Education

- Invited Industry Speaker, 1992 Chemical Engineering Division Summer School for Chemical Engineering Professors

American Association of Engineering Societies

- Listed in Who's Who in Engineering Eighth and Subsequent Editions

CAREER HISTORY

CHEMSTATIONS INC. Houston Texas <i>Supplier of Process Simulation Software</i> Mid & West Business Development Manager	1996-Date
APV CHEMICAL MACHINERY INC., Saginaw, Michigan <i>Manufacturer of Chemical Process Machinery</i> Vice President International Vice President Marketing Business Manager Mixers & Business Manager Centrifuges Mgr. Market Engineering/Assistant General Marketing Mgr. Market Engineer/Assistant Market Manager Process Engineer/Sales Engineer	1966-1995 1986-1995 1983-1986 1978-1983 1974-1978 1967-1974 1966-1967
LINDE DIVISION OF UNION CARBIDE CORP., Tonawanda, New York <i>Molecular Sieve Process Technology Licensing</i>	1963-1966