

DATE

TIME 615pm Social

630pm Dimer(Zupas)

**700pm** Talk

PLACE Eccles Boardoom Warnock Engineering Building (WEB)

University of Utah

72 South Central Campus Drive

Salt Lake City, UT 84112

COST \$1000 per person Lecture and meal free for local section members and first

30 students. Spouses/significant others welcome.

SPEAKER Brians. Haynes

Professor of Chemical Engineering University of Sydney, Australia

TIME

Using small channels for chemical processing applications creates many interesting opportunities for the development of processes that are energy and atomefficient, compact, scalable and distributable. We discuss the development and application of "printed circuit" techniques for the creation of complex fluidic networks for heat exchangers, reactions, and separations. The design principles for such process operations are described. The development and testing of an integrated system for steammethane reforming provides a practical demonstration of what can be achieved.

Brian Haynes obtained his BE (1973) and PhD (1976) from the University of NSW in Sydney, Australia. Since 1983 he has been at the University of Sydney. His research has covered a wide range of topics in energy utilisation, especially in the chemical kinetics of conhustion processes. He was President of the international Conhustion Institute from 2004-2008 and was awarded the Bernard Lewis Gold Medal of the Conhustion Institute in 2012. His work in conhustion led to other topics in energy intensive processing including heat transfer, reforming nitric acid menufacture, hydrothermal liquefaction of biomass, and CO2 utilisation. He has a particular interest in process development based on fundamental research and has been granted a number of patents for such developments.

RSVP to Jorathon Horton at \_\_\_\_\_\_\_
Please also email Jorathon regarding any dietary restrictions.

The link below provides directions to the Warnock Engineering Building All Parking on campus is free after 6 pm http://testingsenterutahedu/directions/veb.php