

Details available online at http://nicta.com.au/nicta_events/big_picture

National ICT Australia invites you to the Victoria Research Laboratory Big Picture Seminar Series Tuesday August 28, 2007

The talk will be followed by light refreshments and an opportunity to meet the speaker.

REGISTRATION IS ESSENTIAL FOR THIS FREE EVENT
RSVP to vrss@nicta.com.au by Friday August 24, 2007

Public Parking is available at an hourly rate at the University Square car park. Enter via Bouverie Street. Local street parking is also available.



When: 4-5pm, Tuesday August 28, 2007

Where: Brown Theatre, Electrical & Electronic Engineering (Building 193), University of Melbourne, Parkville

H. Dieter Rombach, Executive Director, Fraunhofer Institute for Experimental Software Engineering (IESE) Building the Scientific Basis for Professional Software Engineering

ABSTRACT: Building large software systems is often considered an art rather than an engineering task. The practical consequences are large schedule delays, cost overruns, and defects. The deficiencies can be intolerable: for example critical downtimes at banks, poor user acceptance of e-government systems, and even accidents for safety-critical systems. The challenge is to guarantee specified or implicitly expected quality levels as well as budget and delivery targets. In our "design" field, cognitive laws are the basis for prediction, so product-process relationships in software have to be determined empirically. This presentation focuses on the underlying scientific discipline – experimental software engineering, its current status and challenges, and its impact on industry. A first "Handbook of Software & Systems Engineering" will be used for illustration.

BIOGRAPHY: Dr Rombach holds a chair in software engineering at the Technische Universität Kaiserslautern, Germany. He is executive and founding director of the Fraunhofer Institute for Experimental Software Engineering (IESE), and chairs the Fraunhofer ICT group. Prior to this appointment, he held various faculty positions at the University of Maryland. His interests are in software methodologies, modelling and measurement of the software process and resulting products, software reuse, and distributed systems. In 1990 he received the Presidential Young Investigator Award from the National Science Foundation, USA, and in 2000 was awarded the Service Medal of the State of Rhineland-Palatinate, Germany. He serves on several advisory boards for national research centres, including Lero in Ireland, Simula Research Lab in Norway, CESE in USA, and NICTA in Australia. Dr Rombach is a member of GI and ACM, and a Fellow of the IEEE.

