SurgeNet seminar

SurgeNet is a Thematic Network of European organizations involved in the prediction and analysis of fluid transients in pipe systems for the purpose of improved design and operation of such systems.

The Thematic Network intends to develop partnerships within Europe to support selected projects at the forefront of this important field. One of the major benefits of the network will be in what it facilitates rather than what it provides. The network brings the existing expertise on fluid transients in pipe systems together on a European scale leading to wider dissemination of this expertise. SurgeNet includes work packages on software best practice, multiphase transients, leak detection methods and fluid-structure-interaction. Currently SurgeNet consists of 9 principal contractors, 12 members and 17 interested members from industry (18), research institutes (3) and universities (17). The SurgeNet participants work in a wide variety of industries including the water industry, petroleum industry and hydro- and nuclear power industries, providing a breeding ground for knowledge exchange. SurgeNet is funded by the European Commission.

SurgeNet organises workshops and seminars on fluid transients in pipe systems, taking place during progress meetings or parallel to existing conference series.

The meeting, to be held in Delft, The Netherlands, will include 3 short sessions on software best practice, transient leak detection, multiphase transients and a one-day seminar on recent developments and applications in fluid-structure-interaction (FSI).

You can find more information on SurgeNet on the web-site: www.surge-net.info.

Who should attend
Everybody facing fluid transients during design or operation of pipe systems with special interest in software best practice, transient leak detection, multiphase transients or FSI.

Venue
The SurgeNet meeting will be held at WL| Delft Hydraulics, Rotterdamseweg 185, Delft, The Netherlands. Three short sessions on software best practice, transient leak detection, multiphase transients will be held on Thursday 10 April 2003. Recent developments and applications in fluid-structure interaction (FSI) are the primary focus of the seminar on Friday 11 April 2003. Registration takes place prior to the sessions.

Subscription

All sessions are free of charge.

Simply send an e-mail to sec-mci@wldelft.nl, mentioning "**SurgeNet meeting**" in the subject and mentioning the days or sessions you would like to attend in the body of the e-mail. Since hotel accommodation is limited in Delft, we have made reservations in several hotels (appr. € 70,-) for 9th, 10th and 11th April. If you want to book one of these rooms, please send your subscription e-mail before 1st April.

Provisional Programme

Thursday 10 April 2003

13:00	13:45	A. Dudlik (UMSICHT)
		Transient R&D projects at UMISCHT
13:45	14:30	T. Neuhaus (UMSICHT)
		Benchmark calculations and numerical developments in transient two-phase codes.
14:30	16:00	Presentations on leak detection by transients (exact titles to be announced)
16:00	16:15	Break
16:15	17:15	Prof. Gudmundsson (Norwegian University of Science and Technology)
		Offshore applications of the pressure pulse method
17:15	18:15	On multiphase transients (to be announced)

Friday 11 April 2003

08:15	08:45	Arrival of participants
08:45	09:15	Alan Vardy and Keith Austin
		Surge-Net WP5 and the FSI Advisory Group: Past, present, future
09:15	09:30	Break
09:30	10:15	Andre Eijk, TNO
		Examples of FSI in pipe systems
10:15	10:30	Break
10:30	11:15	Helena Ramos, Didia Covas, University of Lisbon
		Mechanical response of plastic pipes during hydraulic transients
11:15	11:30	Break
11:30	12:30	Della Leslie, University of Dundee
		The FSI web site
12:30	13:45	Lunch
13:45	14:30	Arris Tijsseling, Technical University of Eindhoven
		Exact solution of linear hyperbolic 4-eqn system in axial liquid-pipe vibration
14:30	14:45	Break
14:45	15:30	Pierre Moussou, EDF
		FSI effects in conservative linear systems: a kinematic approach
15:30	15:45	Break
15:45	16:30	Christina Giannoppa, King's College London
		Experiments in thin-walled tubes
16:30	16:45	Close