

**TTI Innovation Club
&
Cork Constraint Computation Centre Industry Associates Programme**

Agenda: Optimisation in Telecommunications

Date: Wednesday, 22nd June 2005.

Venue: New Council Room, North Wing, UCC.

Time: 6:15 – 8:30 p.m.

6:15 -6:30 p.m. Registration

6.30 p.m.

Welcome

Ms Miriam Collins, Technology Transfer Initiative, UCC

6.35 p.m.

Introduction to the Cork Constraint Computation Centre (4C) and The Centre for Telecommunications Value-chain-driven Research

Professor Eugene Freuder, Director, 4C

6.40 p.m.

Demonstration of Applications of Constraint Programming

Dr. James Little, External Liaison Officer, 4C

7.00 p.m.

Investigating Economic Trade-offs in Network Design

The sensitivity of the network design task is a key theme within the CTVR project - focusing on backhauling traffic between the base stations of a cellular network and the gateway to the core network. These are optimised for infrastructure cost whilst maintaining service levels, delay and scheduling constraints.

Dr Joe Bater, 4C

7.15 p.m.

Optimizing the Design of your Global Supply Chain

“Going global” has transformed traditional business practice. Supply Chain Managers are dealing with how to design their global supply chains and achieve optimal performance. Key research at Bell Labs Ireland will be presented which addresses some of the major challenges for optimal supply chain design.

Dr Mike Schabel, Bell Labs, Ireland

7.35 p.m.

Optimising Cellular Wireless Networks using Evolutionary Computing Techniques

A summary of work undertaken in the Centre for Adaptive Wireless Systems at Cork Institute of Technology in the area of wireless network optimisation will be presented. This will cover optimal cellular mobile network frequency planning & deployment and wireless local area network optimisation for indoor environments.

Dr. Martin Klepal, CIT

7.55 p.m.

Test Set Optimisation

Testing incurs great direct and indirect cost within the telecoms industry. This research develops models for selecting lowest cost test strategies.

Mr Onur Koyuncu, 4C

8.10 p.m.

Q & A

Ms Miriam Collins

8.30 p.m.

Reception



**The Cork Constraint
Computation Centre
Industry Associates
Programme web site is on
line at www.4c.ucc.ie/iap**

**To book your place, please
contact:**

Sandra Lenihan, TTI

Email:

s.lenihan@ucc.ie

Tel:

021-4903925

Fax:

021-4273365

www.technologytransfer.ie