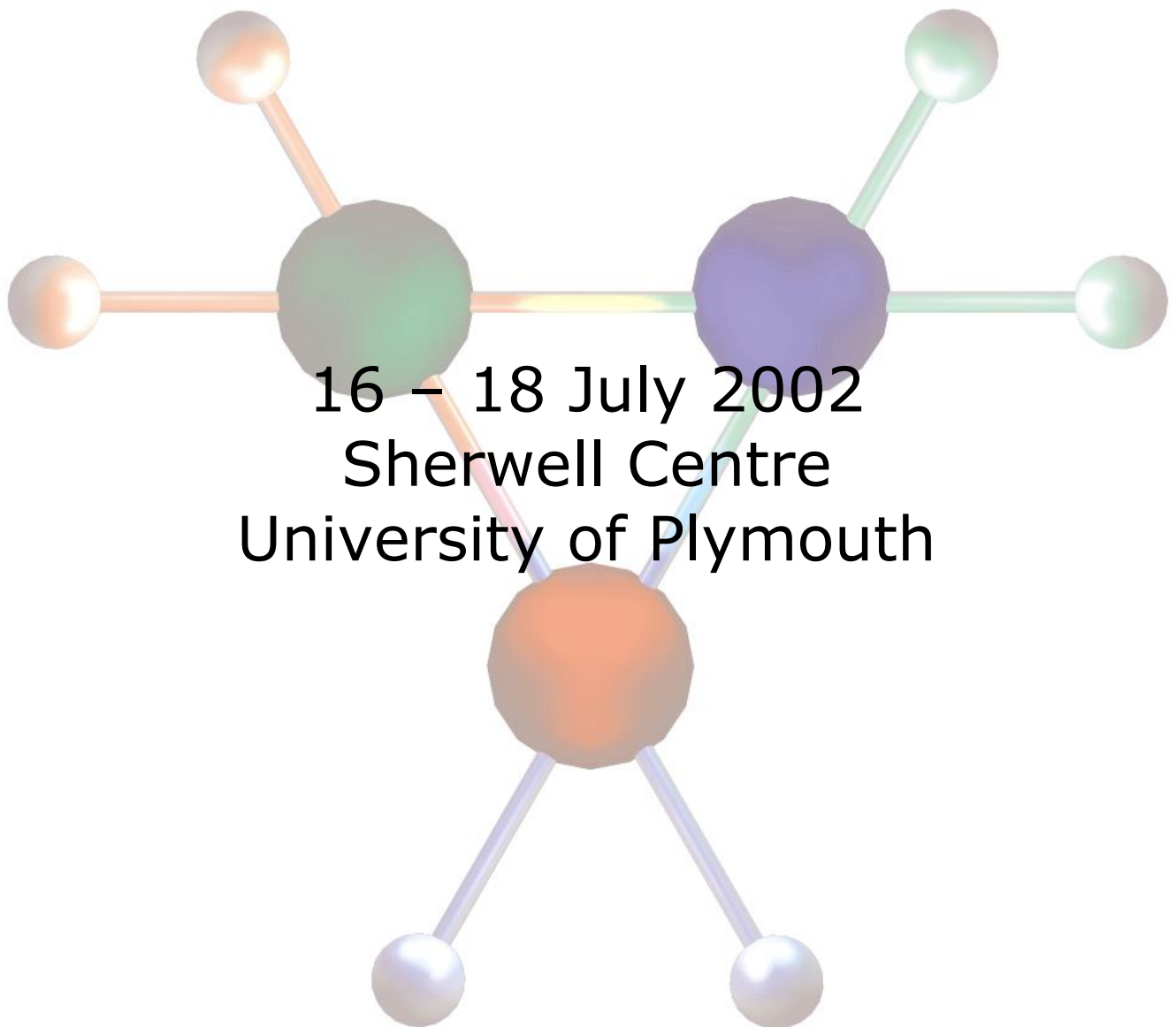


# INC 2002

Organised by the Network Research Group, University of Plymouth

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16 – 18 July 2002  
Sherwell Centre  
University of Plymouth

## Programme

# Overview

Monday 15th July, 2002	Registration (18:00 - 19.00) Light refreshments will be available]  Welcome reception
Tuesday 16th July, 2002	Registration Opening presentations Paper presentations Boat trip & buffet/barbeque
Wednesday 17th July, 2002	Paper presentations Conference banquet & tour
Thursday 18th July 2002	Paper presentations Poster presentations Closing session

## Social Events

### **Monday 15th July, 2002 – Welcome reception**

We will assemble at the Sherwell Conference Centre at 19:00 and walk to the reception venue.

### **Tuesday 16th July, 2002 – Boat trip & buffet/barbeque**

Depart from Sherwell Conference Centre at 16:30.

NB it is advisable to bring a jacket for the boat trip as we will be on the boat until around 9pm.

We should arrive back at the University at approximately 10pm.

### **Wednesday 17th July, 2002 – Conference banquet & tour**

We will assemble at the Sherwell Conference Centre at 18:30 and walk to the Marine Aquarium through the Barbican.

**Please ensure your mobile phone / pager /  
watch alarms are turned off during the  
conference sessions.**

## Tuesday 16th July 2002

09:00 Introduction and welcome to INC 2002  
Dr. Steven Furnell, Conference Chairman

Get protected - or get regulated  
Jeremy Ward, Service Development Director, Symantec Security Services

### Hall One

#### Session 1 : Security [10:00 - 11:15] Chair : Gerrit Bleumer, Francotyp-Postalia

Designing an Embedded Firewall/VPN Gateway  
Vassilis Prevelakis, Angelos Keromytis (USA)

Measuring SSL and SET against e-commerce consumer requirements  
Pita Jarupunphol, Chris Mitchell (UK)

A Secure Multicast Architecture Based on Policy  
Sun Wei-qiang, Li Jin-sheng, Hong Pei-lin, Xiong Ji-ping, Liao Xiao-fei (China)

### Hall Two

#### Session 1 : Multimedia over IP [10:00 - 11:15] Chair: Carsten Griwodz, University of Oslo

Improving the Start-Up Behaviour of TCP-friendly Media Transmissions  
Jens Schmitt, Michael Zink, Steffen Theiss, Ralf Steinmetz (Germany)

Investigating Interaction of Audio and Video Quality as Perceived in Low-Cost Multimedia Conferencing Systems

L. Mued, B. Lines, S.M. Furnell and P.L. Reynolds (UK)

Multiparty Conference Signalling using Session Initiation Protocol (SIP)  
Igor Miladinovic, Johannes Stadler (Austria)

### Coffee/Tea Break

#### Session 2 : Security [11:45 - 12:35] Chair: William Hutchinson, Edith Cowan University

Internet smartcard, a device for solving security issues over Internet  
Pascal Urien (France)

Subscriber Authentication for Mobile Phones Using Keystroke Dynamics  
N.L. Clarke, S.M. Furnell, B.M.Lines, P.L. Reynolds (UK)

#### Session 2 : Quality of Service [11:45 - 12:35] Chair : Benn Lines, University of Plymouth

QoS Routing with Multiple Prioritized Constraints Using the Concept of the Analytic Hierarchy Process (AHP)

Abdullah M S Alkahtani, Michael Woodward, K Al-Begain, Abdullah N Alghannam (UK)

A Multicast Routing Algorithm for Multiple QoS Requirements  
Masayoshi Kanbara, H Tanioka, K Kinoshita, K Murakami (Japan)

### Lunch Break – BABBAGE REFECTORY

#### Session 3 : Network Technologies [13:45 - 15:25]

A Comparison of iSCSI and Fibre Channel for Storage Area Networks  
S Watts and I Barlow (UK)

A Loss Detection Service for Active Reliable Multicast Protocols

M Maimour, C D Pham (France)

Configurable network management for small and medium networks distributed over a wide area

A Vizcaíno, F Alba, J Ponceña, J T Entrambasaguas (Spain)

Smart Push Model in Distributed Network Monitoring

Chalup Jeong (USA)

#### Session 3 : Distributed Technologies [13:45 - 15:25] Chair : Udo Bleimann, University of Applied Sciences, Darmstadt

Transparent Process Migration for Distributed applications in a Beowulf Cluster

Mark Claypool, David Finkel (USA)

ActorServer: A Java Middleware for Programming Distributed Applications over the Internet

A Furfaro, L Nigro, F Pupo (Italy)

GRID Talk: Connecting Grids

Virupatchan Maheswaran, Nick Antonopoulos (UK)

Software Component Assembly Prediction - or how to predict the unpredictable

Holger Hofmann, Marcel Dix (Germany)

### Coffee/Tea Break

## 16:30 Boat Trip and Buffet / Barbeque

NB it is advisable to bring a jacket for the boat trip as we will be on the boat until around 9pm.

## Wednesday 17th July 2002

09:00 Why trust is bad for security  
Dieter Gollmann, Microsoft Research

### Hall One

#### Session 1 : Multimedia over IP [10:00 - 11:15] Chair : Benn Lines, University of Plymouth

RCAP: A Rate Control Proactive Protocol  
D-H Hoang, D Reschke, W Horn (Germany)  
A Broadcasting Scheme to Support Fast-Forward interaction in Video-on-Demand Service  
Hon-Shing Ma, Tsun-Ping Jimmy To, Chi-Kwong Li (China)  
Jitter control for interactive voice applications in mobile ad hoc networks  
Mouna Benaissa, Vincent Lecuire, Francis Lepage (France)

### Hall Two

#### Session 1 : Web Technologies and Applications [10:00 - 11:15] Chair : David Finkel, Worcester Polytechnic Institute

Web Portal for Multicast Communication Management  
Herwig Mannaert, B De Gruyter, P Adriaenssens (Belgium)  
WebRUM: A Model for Measuring Web-Wide Resource Usage  
Mike Evans, Steven Furnell (UK)  
Impact of Partial Reliability on Web Image Transport Performance  
Johan Garcia, Anna Brunstrom (Sweden)

### Coffee/Tea Break

#### Session 2 : Quality of Service [11:45 - 13:00] Chair : Paul Reynolds, Orange

Endpoint study of Internet paths and web pages transfers  
B Ghita, S Furnell, B Lines, E Ifeachor (UK)  
G-Marking: Improved Marking Method for Multiple-Domain Differentiated Services  
Seung-Joon Seok, Sung-Hyuck Lee, Chul-Hee Kang (Korea)

Efficient Voice Communications over IEEE802.11 WLANs Using Improved PCF Procedures  
Eustathia Ziouva, Theodore Antonakopoulos (Greece)

#### Session 2 : Distributed Technologies [11:45 - 13:00] Chair : Holger Hofmann, ABB Corporate Research Center

Garbage Collection for Java Distributed Objects  
Andrei Dancus, David Finkel (USA)  
The Design of a Reliable Multipeer Protocol in Java for Internet based Distributed Virtual Environments  
Gunther Stuer, Jan Broeckhove, Frans Arickx (Belgium)  
Distributed Genetic Algorithm with Multiple Populations using Multi-Agent for the TSP  
Jung-Sook Kim (Korea)

### Lunch Break – SHERWELL CENTRE

#### Session 3 : Security [14:00 - 15:15] Chair : Matthew Warren, Deakin University

Anomaly Intrusion Detection System Based on Online User Recognition  
Alexandr Seleznyov, Oleksiy Mazhelis, Seppo Puuronen (Finland)  
Identifying security vulnerabilities through input flow tracing and analysis  
S.D. Xenitellis (UK)  
Partially sighted signatures on large documents  
F Bergadano, Davide Cavagnino, L Egidi (Italy)

#### Session 3 : Networks Technologies / Applications & Impacts [14:00 - 15:15] Chair: Carsten Griwodz, University of Oslo

On Lifetime Extension and Route Stabilization of Energy-Efficient Broadcast Routing over MANET  
Intae Kang, Radha Poovendran (USA)  
My Information Broker: A Next Step to overcome the Information Problems in the Internet  
Robert Loew, Udo Bleimann, Brendan Murphy, Joerg Preuss (Germany, Ireland)  
Information Provision to Individuals and User Profiles  
M Konstantopoulos, J S Darzentas, T Spyrou, J Darzentas (Greece)

### Coffee/Tea Break

**Session 4 : Applications of On-Line Learning [15:45 - 17:00]**

**Chair : Jeanne Stynes, Cork Institute of Technology**

Towards An Adaptive Multimedia Learning Environment: An Australian Solution to Cross-Cultural And Offshore Delivery Issues

Frank Kurzel, Jill Slay (Australia)

An Online Course Materials Copyright Protection Scheme

Joe C K Yau, Lucas C K Hui, Bruce Cheung, S M Yiu (Hong Kong)

A Virtual University using Mobile Agent Technology

Ingo Stengel, Udo Bleimann, Jeanne Stynes (Germany, Ireland)

**Session 4 : Mobility [15:45 - 17:00]**

**Chair : Paul Reynolds, Orange**

Protocol Stack Design for 3rd Generation Mobile Systems - UMTS Core Network  
Theodore Stergiou, Roger Green, Mark Leeson (UK)

An Enhanced Handoff Mechanism for Cellular IP

Jong-deok Kim, Kyung-ah Kim, Jae Yoon Park, Chong-kwon Kim (Korea)

Security for IP multimedia services in the 3GPP third generation mobile system

G Horn, D Kröselberg, K Müller (Germany)

**19:00 Conference Banquet & Aquarium Tour  
Including presentation of best paper award**

Depart conference centre at 18:30  
(walk to Marine Aquarium through the Barbican)

## Thursday 18th July 2002

### Hall One

#### Session 1 : Mobility [09:00 - 10:15]

##### Invited Presentation

A Vision of the Internet in 2010 (The Mobile Internet)

Paul Reynolds (UK)

Towards a smooth handoff for TCP and real time applications in wireless network  
Djamel Tandjaoui, N Badache, H Bettahar, A Bouabdellah, H Seba (Algeria, France)

A Hierarchical Mobile Multicast Communication Protocol

Kwang-Hui Lee, Tao-Soo Kim (Korea)

### Hall Two

#### Session 1 : Network Technologies [09:00 - 10:15]

Chair : Ian Barlow, University of Plymouth

Transition Strategies from IPv4 to IPv6: The case of GRNET

Christos Bouras, P Ganos, A Karaliotas (Greece)

Stability on end-to-end path in the Internet

Jingping Bi, Qi Wu, Zhongcheng Li (China)

Two Special Register Addressing Modes for Internet Protocol Processing

Yutai Ma, Axel Jantsch, Hannu Tenhunen (Sweden)

### Coffee/Tea Break

#### Session 2 : Web Technologies [10:45 - 12:00]

Chair: Michael Evans, Kingston University

Agent-based Sophisticated and Scalable Scheduling Method

YunHee Shin, Sook-Heon Lee, HyunKi Baik, Gyeong-Hoon Kim, Myong-Soon Park (Korea)

Supporting Persistent Connection in Layer-7 Web Switch

Mon-Yen Luo, Chu-Sing Yang (Taiwan)

Adaptive Content Delivery for Scalable Web Servers

Rahul Pradhan, Mark Claypool (USA)

#### Session 2 : Quality of Service [10:45 - 12:00]

Chair: Dominique LeFoll, Acterna

A QoS Dynamic Bandwidth Partitioning (Q-DBP) Using Fermi-Utility Functions

Chuang-Yueh Chen, Sandra Woolley, Andrew Forgham, Keith Jones (UK)

A Comparative Study of Explicit Congestion Notification Mechanism Effects in the Service Level of Differentiated Services Networks

Elaine A Borges, Paulo Roberto Guardieiro (Brazil)

An Approach for QoS Measurements in IP Multicast Networks MQM - Multicast Quality Monitor

Falko Dressler (Germany)

### Lunch Break – BABBAGE REFECTORY

#### Session 3 : Security [13:00 - 14:15]

Chair : Steven Furnell, University of Plymouth

A Hybrid Approach to Group Key Management

H Seba, A Bouabdallah, H Battahar, N Badache, Djamel Tandjaoui (Algeria, France)

Securing the Network Client

Victoria Skoularidou, D Spinellis (Greece)

Security Risk Analysis e-Commerce

Matthew Warren, William Hutchinson (Australia)

#### Session 3 : Posters [13:00 - 14:15]

Chair : Andrew Phippen, University of Plymouth

Design and Implementation of Large-scale Network Performance Measurement and Analysis System

Jingping Bi, Qi Wu, Zhongcheng Li (China)

IS Security, Trust And Culture: A Theoretical Framework For Managing IS Security In

Multicultural Settings

Jill Slay (Australia)

Improving Awareness of an IT Security Culture

John Finch (UK)

VPNs and QoS issues

Apostolos Birdas (UK)

Integration of Biometrics within Industry

Vassilis Dimopoulos (UK)

Collaboration issues with Change Management as a Web Service

Simon Wright (UK)

Biometric Identity Verification

Phil Rodwell (UK)

Factors Influencing Intrusion Response

Maria Papadaki (UK)

Electronic Health Records

Titis Karweni (UK)

## Coffee/Tea Break

### Session 4 : Network Technologies [14:45 - 17:00]

Chair : Benn Lines, University of Plymouth

Self-Similar Network Traffic Simulation

Diane T. Lark, Martha Evens, William Lidinsky (USA)

Supporting Secure, Ad Hoc Joins for Tactical Targeting Network Technology

Joshua Datko, Margaret McMahon, Donald Needham (USA)

A Scalable Path Restoration Scheme for MPLS Network

Daniel Won-Kyu Hong, Choong Seon Hong (South Korea)

Impact of heavy traffic beyond communication range in multi-hops ad-hoc networks

Dominique Dhoutaut, Isabelle Guerin-Lassous (France)

A Simple ATM Backbone Network Reliability Model

Veena Mendiratta (USA)

### Session 4 : Applications & Impacts [14:45 - 17:00]

Chair : Steven Furnell, University of Plymouth

Peer Acceptance in a Virtual Community – The Impact of the Web on Surfing

Andy Phippen, Ben Beadman (UK)

Information superiority and the role of an organisation's network

William Hutchinson, Matthew Warren (Australia)

Privacy Management A New Era in the Australian Business Environment

Vidya Moghe (Australia)

The Utilisation of Internet Anonymity by Cyber Criminals

Helen Armstrong, Patrick Forde (Australia)

The Misuse of the Internet at Work

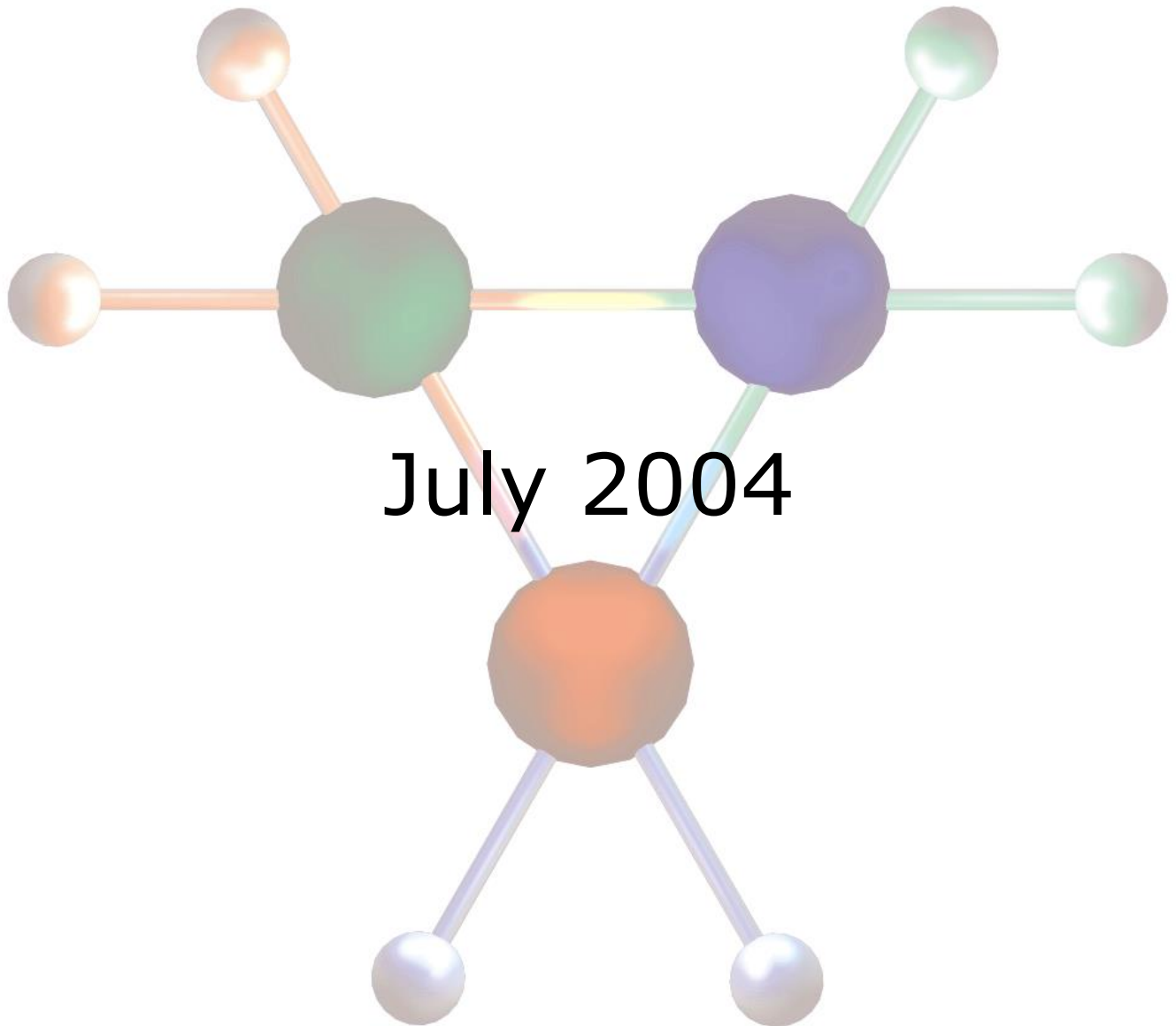
Craig Valli (Australia)

## End of Conference

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July 2004

[www.inc2004.org](http://www.inc2004.org)