

An Arctic Trial of Delay Tolerant Networking

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3.30 – 4.30 pm

MacRobert MR051

Delay- and Disruption-Tolerant Networking (DTN) is an emerging area of networking research that will benefit from real-world trials and testbeds.

This seminar describes a week long DTN trial carried out during the summer of 2009 in the Laponia area of Northern Sweden that involved the provision of basic email and web services to users who were 57 km distant from any power or networking infrastructure. The trial validated the design and successfully demonstrated the use of email via helicopter-transported data-mules. A description of plans for an extended trial in summer 2010 in the same area is also given.

Dr Stephen Farrell is a research fellow in the department of Computer Science at Trinity College Dublin, (www.tcd.ie) where he teaches and researches on security and delay/disruption-tolerant networking (DTN), and in 2006 co-authored the first book on the latter topic.

Stephen has been involved in Internet standards for more than a decade; currently he co-chairs the IETF DomainKeys Identified Mail (www.dkim.org) Working Group, is an invited expert in the W3C Web Security Context (www.w3.org/Security) group and also co-chairs the IRTF Delay Tolerant Networking Research Group (www.dtnrg.org).