IRTF Open Meeting

Lars Eggert

IRTF Chair

IETF-82, Taipei, Taiwan

Administrativa

- **Today's slides**
  - https://datatracker.ietf.org/meeting/82/materials.html#wg-IRTF
- **Audio streaming**
  - http://www.ietf.org/audio/ietf82/
- **Jabber chat**
  - xmpp:irtf@jabber.ietf.org?join
- **Mailing lists**
  - http://irtf.org/mailman/listinfo/irtf-announce
  - http://irtf.org/mailman/listinfo/irtf-discuss

IRTF Open Meeting Agenda
Tuesday, 13:00

13:00 **State of the IRTF**   IRTF & RG Chairs
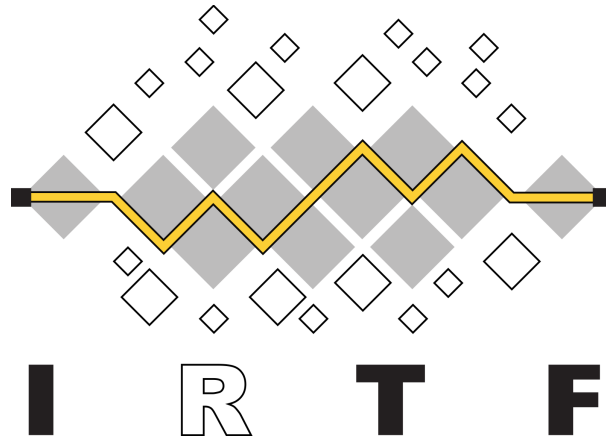
Applied Networking Prize (ANRP) awards

13:30 Is it Still Possible to Extend TCP?   Michio Honda

14:00 Misbehaviors in TCP SACK   Nasif Ekiz
Generation

New IRTF research group proposals

(if time) Cross-Stratum Optimization   Lee Young

State of the IRTF

IRTF Meetings This Week

Two RGs are meeting this week (much less than normal)

- Host Identity Protocol
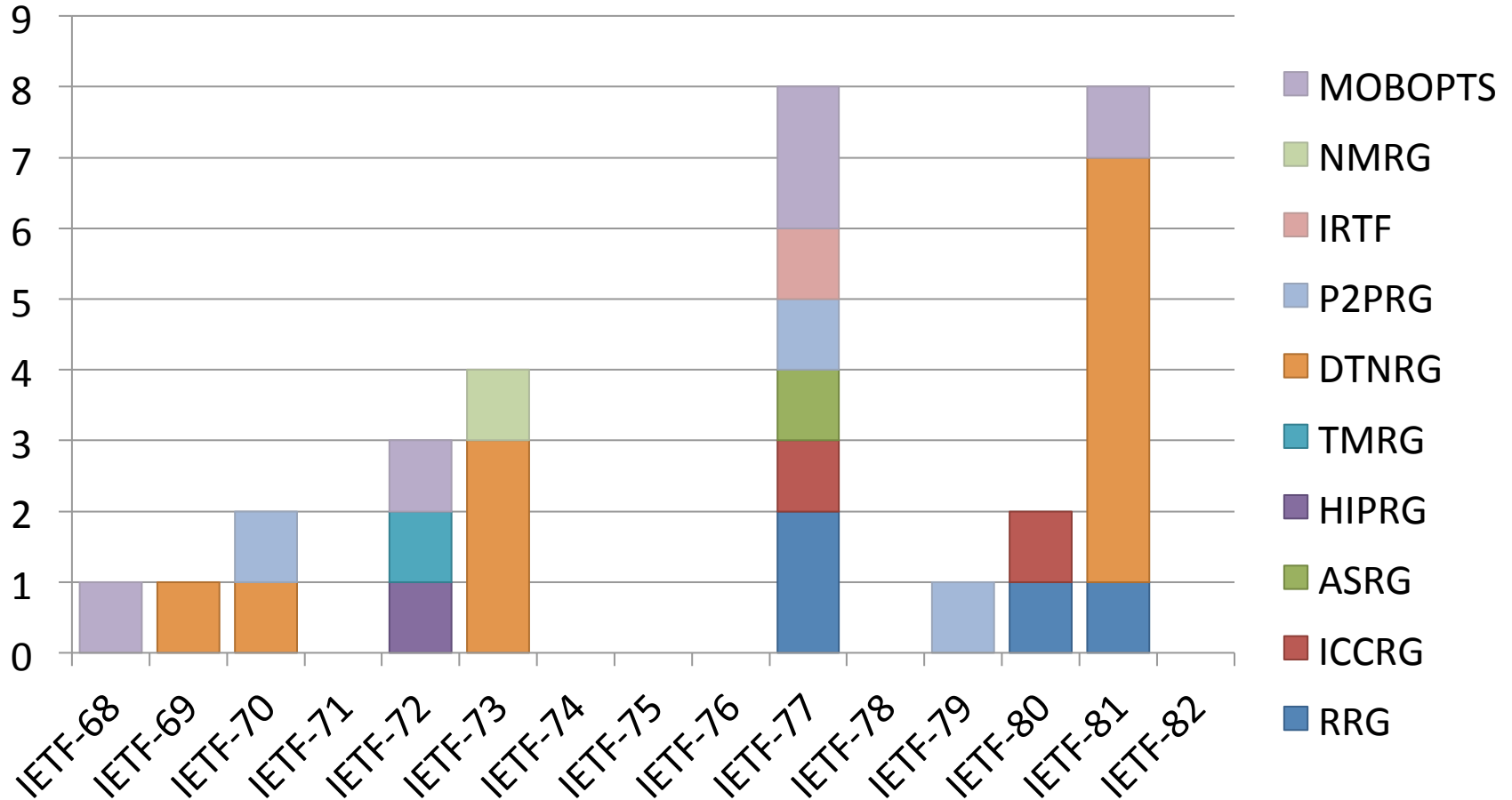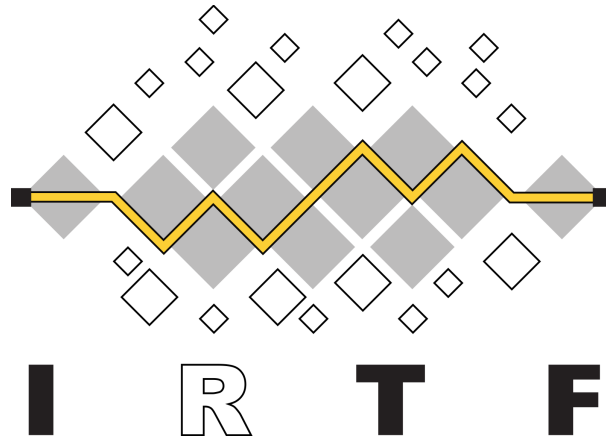- Scalable Adaptive Multicast

Other IRTF-related meetings

- **IRTF Open Meeting** Tuesday, 13:00
- reviewing the ASRG with the IAB on Thursday
- three side meetings about potential new RGs
  - CSO, ICN, LCCN

IRTF RFC Publications since IETF-81

- none

IRTF Stream RFC Publications

Research Group Status

Research Group Status

- **Active**
  - ASRG, CFRG, DTNRG, ICCRG, NMRG, SAMRG
  - NCRG (new!)
- **Little activity**
  - HIPRG, MOBOPTS, P2PRG, RRG, VNRG
- **Closed**
  - TMRG (merged back into ICCRG)

Anti-Spam Research Group

- Published one RFC, *Overview of Email DNSBL Best Practise*

    - In draft since 2004. I hope that's a record

- Possible greylisting overview

    - Coordinate with MAAWG

- The usual discussion of good and bad anti-spam ideas

ICCRG

- Transport Modeling Research Group (TMRG) is closing down

- One active work item merged with ICCRG and charter has been updated to include test suite development.

- Discussions related to TMRG topics will happen in the ICCRG mailing list.

DTNRG

- Docs: draft-irtf-dtnrg-prophet-09 in IRSG review

- Open source activity on spec implementations
  - DTN2 version 2.8.0
  - IBR 0.6.5
    - Implementers workshop held in Braunschweig (Sep)

- Thoughts about performance benchmarking
  - Goal: transparency wrt applicability of implementations

- Academic workshops
  - CHANTS (Sep 2011), ExtremeCom (Sep 2011)
  - Upcoming: MobiOpp (Mar 2012), ExtremeCom (Mar 2012)

HIP RG Status

- Meeting in Taipei on Thu 9-11.30
- Experiment report, DHT interface passed IESG review, one more revision before publication
- Presentations on HIP 3GPP auth, WLAN roaming, deployment paths, RFID tags, proxies
- New HIPL release 1.0.6
- C and Java implementations for HIP DEX
- New IEEE 802.15.9 is chartered with creating keying mechanisms for 802.15.4 and 7 (including Diet HIP)

Mobopts RG Status

- There is not much **research** happening with MobileIPv6 optimizations
- There are other interesting areas of research
  - Alternative mobility mechanisms (MP-TCP, LISP, HIP, foo…)
  - Issues and solutions related to using IETF protocol in wireless networks
  - Investigate privacy issues in mobile networks
  - Investigate mobile device policy management for functions such as network discovery, congestion reporting and flow management
  - provide a general forum for discussing mobility studies in a larger sense such as vehicular networks, personal area networks, 4G performance studies, testbed evaluations etc
- We are trying to find if there is sufficient interest in the research community to sustain work in this RG
  - We will try to reach out to academic researchers at conferences
  - Try to bring them over to the IETF
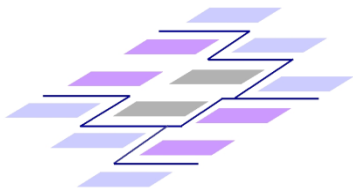
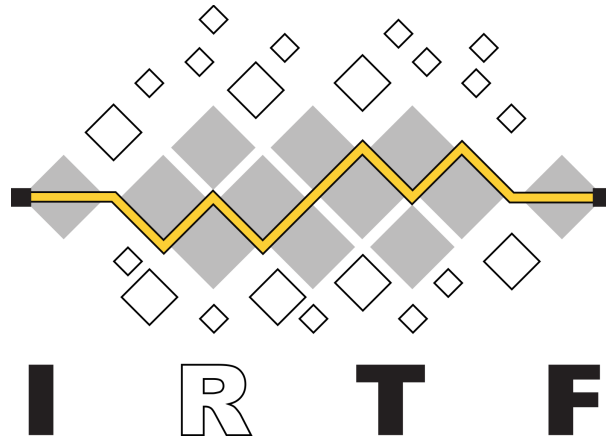# Scalable Adaptive Multicast (SAM) RG

Chairs
- John Buford and Thomas Schmidt

Current activities

- ## Hybrid Multicast
  - Common Service API for Transparent Pub-/Sub Access
  - Experimental Evaluations of Prototype

- ## RELOAD-based group coordination
  - ALM Extensions to RELOAD
  - Group Conferencing with Distributed Coordination in RELOAD

Virtual Networks RG

- Met last time at IETF 81
- Few emails/activity since then

- Many VNRG related discussions in the IETF
  – l2vpn, l3vpn, vpn4dc, cso, etc
- Aiming at bringing them together at the VNRG

IPR and the IRTF
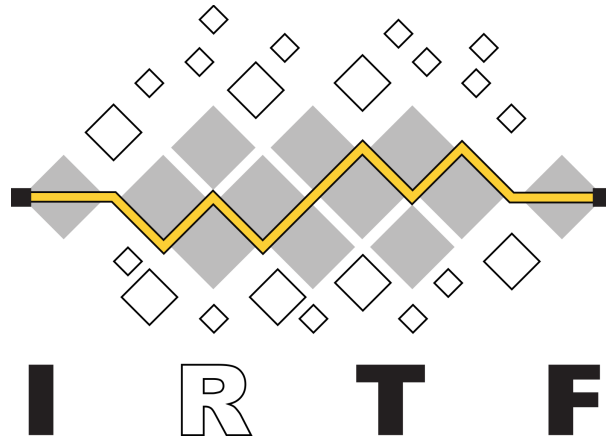
Applied Networking Research Prize Awards & Presentations

Applied Networking Research Prize

- Second iteration
- Jointly with ISOC
- 13 nominations
- IETF/IRTF selection committee
- Two prize winners
  - **Michio Honda**
  - **Nasif Ekiz**
- Talks at the IRTF Open Meeting

"…awarded for recent results in applied networking research that are relevant for transitioning into shipping Internet products and related standardization efforts…"
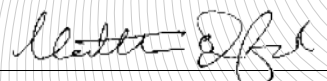
Nomination period for 2012 starts soon!

http://irtf.org/anrp

Applied Networking Research Prize

Presented to

Michio Honda

Michio Honda, Yoshifumi Nishida, Costin Raiciu, Adam Greenhalgh,
Mark Handley and Hideyuki Tokuda. **Is it Still Possible to Extend TCP?**
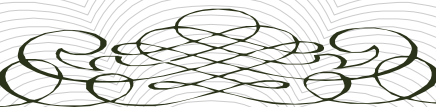Proc. *ACM Internet Measurement Conference (IMC)*, Berlin, Germany,
November 2011.

Mat Ford, Internet Society

Lars Eggert, IRTF Chair

Applied Networking Research Prize

Presented to

Nasif Ekiz

Nasif Ekiz, Abuthahir Habeeb Rahman and Paul D. Amer. **Misbehaviors in TCP SACK Generation.** *ACM SIGCOMM Computer Communications Review*, Volume 41, Issue 2, April 2011.

Mat Ford, Internet Society

Lars Eggert, IRTF Chair