

## IRTF Open Meeting

Colin Perkins
IRTF Chair

Singapore / 18 November 2019

### Note Well – Intellectual Property

- The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules
- By participating in the IRTF, you agree to follow IRTF processes and policies:
  - If you are aware that any IRTF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion
  - The IRTF expects that you file such IPR disclosures in a timely manner in a period measured in days or weeks, not months
  - The IRTF prefers that the most liberal licensing terms possible are made available for IRTF Stream documents – see RFC 5743
  - Definitive information is in RFC 5378 (Copyright) and RFC 8179 (Patents, Participation), substituting IRTF for IETF, and at https://irtf.org/policies/ipr

### Note Well – Privacy & Code of Conduct

- As a participant in, or attendee to, any IRTF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public
- Personal information that you provide to IRTF will be handled in accordance with the Privacy Policy at https://www.ietf.org/privacy-policy/
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this
- See RFC 7154 (Code of Conduct) and RFC 7776 (Anti-Harassment Procedures), which also apply to IRTF

### Goals of the IRTF

- The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organisation, the IETF, focuses on shorter term issues of engineering and standards making
- The IRTF conducts research; it is not a standards development organisation
- While the IRTF can publish informational or experimental documents in the RFC series, its primary goal is to promote development of research collaboration and teamwork in exploring research issues related to Internet protocols, applications, architecture, and technology
- See "An IRTF Primer for IETF Participants" RFC 7418

### Stay Informed About IRTF



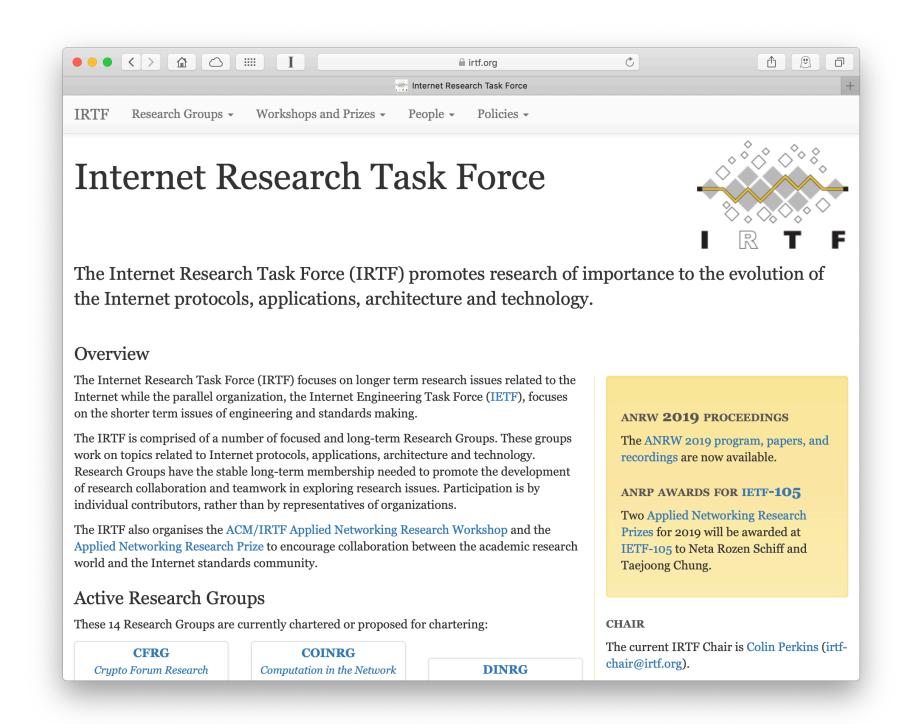
https://irtf.org



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- https://irtf.org/mailman/listinfo/irtf-announce announcements
- https://irtf.org/mailman/listinfo/irtf-discuss discussion

### Research Groups

#### **CFRG**

Crypto Forum Research Group

#### COIN

Computation in the Network (proposed)

#### DINRG

Decentralised Internet Infrastructure

#### **GAIA**

Global Access to the Internet for All

#### **HRPC**

Human Rights Protocol Considerations

#### **ICCRG**

**Internet Congestion Control** 

#### **ICNRG**

Information-centric Networking

#### **MAPRG**

Measurement and Analysis for Protocols

#### **NMRG**

Network Management

#### **NWCRG**

Network Coding for Efficient Network Communications

#### **PANRG**

Path Aware Networking

#### **PEARG**

Privacy Enhancements and Assessments (proposed)

#### QIRG

Quantum Internet (proposed)

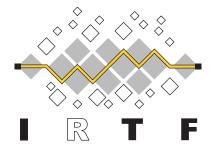
#### T2TRG

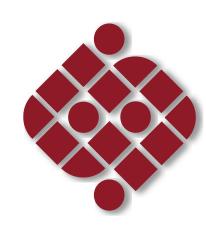
Thing-to-Thing

### Applied Networking Research Workshop

- Forum for researchers, vendors, network operators and Internet standards community to present and discuss emerging results in applied networking research
- ANRW 2020 will be co-located with IETF 108 in Madrid, Spain, July 2019
  - TPC chairs: Mirja Kühlewind and Roland van Rijswijk-Deij
  - https://irtf.org/anrw/2020/ proceedings in ACM Digital Library







### Applied Networking Research Prize

- ANRP is awarded for recent results in applied networking research that are relevant for transitioning into shipping Internet products and related standards efforts
- One ANRP prize winning talk today: Weiteng Chen for his work on wireless network security:
  - Weiteng Chen and Zhiyun Qian, "Off-path TCP exploit: how wireless routers can jeopardize your secrets", Proc. USENIX Security Symposium, August 2018.
- Nominations for ANRP 2020 awards are now open: https://irtf.org/anrp/
  - Nomination deadline: 24 November

# Agenda

Time	Topic	Speaker
15:50	Introduction and Status Update	Colin Perkins
16:00	Off-Path TCP Exploit: How Wireless Routers Can Jeopardize Your Secrets	Weiteng Chen
16:40	Research Group Update: COIN	Marie-Jose Montpetit
16:50	Relation between IRTF and IETF	Melinda Shore
17:10	Moving work between IRTF and IETF	Aaron Falk & Laurent Ciavaglia
17:30	How can the IETF help academia (and vice versa)?	Marie-Jose Montpetit
17:50		