

# **Welcome to the ccTLD Workshop**

**15-19 September 2008  
Amsterdam, Netherlands**

Amsterdam, September 2008



# Apologies from Mirjam Kühne

Amsterdam, September 2008



# Intro: Daniel Karrenberg

- Chief Scientist @ RIPE NCC
- Born and raised in Düsseldorf, DE
- Live in NL for 20+ years, married, 2 kids
- Stuff I have done:
  - EUnet, RIPE NCC, (CENTR), NSD, dnsmon
- Stuff I am currently doing:
  - Measurements, “registration data history”, “reg. data quality”
  - ISOC trustee (current chairman of the board)
  - Keep on learning and teaching



Amsterdam, September 2008



# Thanks!

- RIPE NCC for hosting the Training
  - Special thanks to everyone at RIPE NCC who helped to make this event possible.
  - Emil you are a hero !



- Many thanks also to SIDN for sponsoring the Welcome Social on Wednesday.

# Participants (1)

Adriatik Allamani	Albania	.al
Barjon Rama	Albania	.al
Luis Leon Cardenas Graide	Chile	.cl
Cristian Rojas	Chile	.cl
Elena Grimany	Cuba	.cu
Ayitey Bulley	Ghana	.gh
Godfred Ofori-Som	Ghana	.gh
Nicholas Wambugu	Kenya	.ke

## Participants (2)

Paulos B. Nyirenda	Malawi	.mw
Eswari Prasad Sharma	Nepal	.np
Rakeshman Karmacharya	Nepal	.np
Cesar David Rodas Maldonado	Paraguay	.py
Daniel Brassel	Paraguay	.py
Medard Bassene	Senegal	.sn
Khalil Rakhmanov	Tajikistan	.tj
Atef Loukil	Tunisia	.tn
Wafa Dahmani	Tunisia	.tn

# Mailing list

<cctld-ams-students@ws.edu.isoc.org>

# Instructors

Jaap Akkerhuis

NLnetLabs

Hervey Allen

NSRC

John Crain

ICANN

Chris Evans

ICANN

Daniel Karrenberg

RIPE NCC

Olaf Kolkman

NLnetLabs

Duane Wessels

Measurement Factory

# Schedule

08:30 - 09:00	Breakfast / RIPE NCC
09:00 - 10:45	Session I
10:45 - 11:00	Coffee break
11:00 - 13:00	Session II
13:00 - 14:00	Lunch / RIPE NCC
14:00 - 15:45	Session III
15:45 - 16:00	Coffee break
16:00 – 17:30	Session IV

# Agenda - Day 1 (Monday)

- Introduction, including ccTLD reports.
  - Reports to include:
    - What is in use (software/hardware solutions)
    - Structure / Domain structure
    - burning issues, what you need to crack next
- Building out your Registry [Hervey, Jaap, Daniel, John]
- Registry Tools [Hervey, Jaap, others]
  - Demo what we can, discuss others, technical details

## Agenda - Day 2 (Tuesday)

- Registry Tools cont.
- Network Monitoring/Management [Hervey]
  - Short intro/reminder
- DSC: DNS Server monitoring [Duane]
  - Install and configure

## Agenda - Day3 (Wednesday)

- SLAs: Service Level Agreements [John]
  - How they differ for a registry
  - Unique issues (legal and technical)
- EPP: Extensible Provisioning Protocol [Jaap]
- Security as it pertains to DNSSEC [Hervey]
  - Review of Public/private keys
  - Digital signatures

# Agenda - Day 4 (Thursday)

- DNSSEC [Olaf]

# Agenda - Day 5 (Friday)

- DNSSEC [Olaf]
- Practical lab to resolve ccTLD issues [Everyone]
  - As needed
- End of Workshop

# Your Opportunity to Network !

- This is not a song and dance show to sit back and enjoy.
- It is not a slick course run by “instructor” instructors.
- But the instructors are leading experts, your unique chance !
  
- It is a ***workshop:***
- Make friends, learn from each other!
- Network with each other and the instructors!
- (Make use of being at the RIPE NCC)

Amsterdam, September 2008



# Internet Society (ISOC)

## Recent Activities

Mirjam Kühne  
ISOC

Amsterdam, September 2008



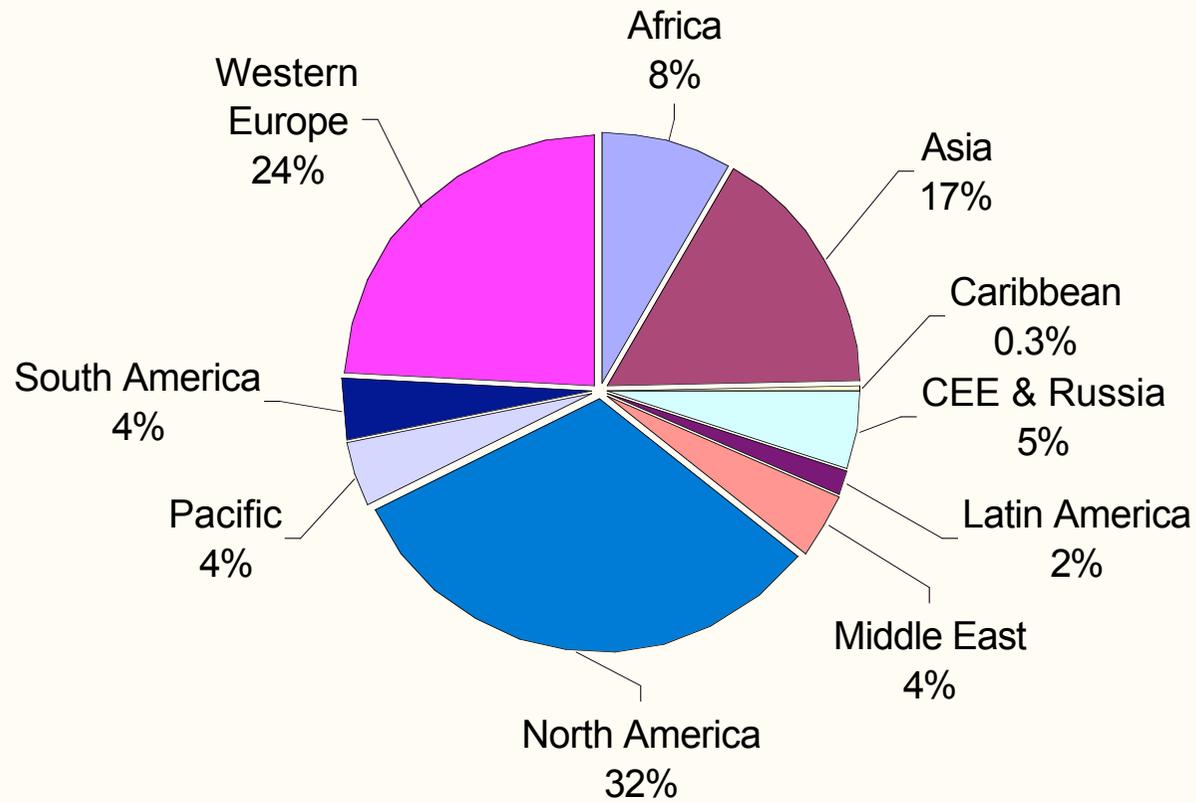
# Overview

- What is ISOC?
  - Mission
  - Membership & Chapters
- Activities & Initiatives
  - Education
  - Policy
  - Standards

# What is ISOC?

- Mission and purpose
  - "To assure the open development, evolution and use of the Internet for the benefit of all people throughout the world."
- Not-for-profit organisation
  - Global, but with a local perspective
    - 84+ ISOC Chapters worldwide, also in this region
    - 26,000+ individual members
    - 100 organisational members

# Global Membership



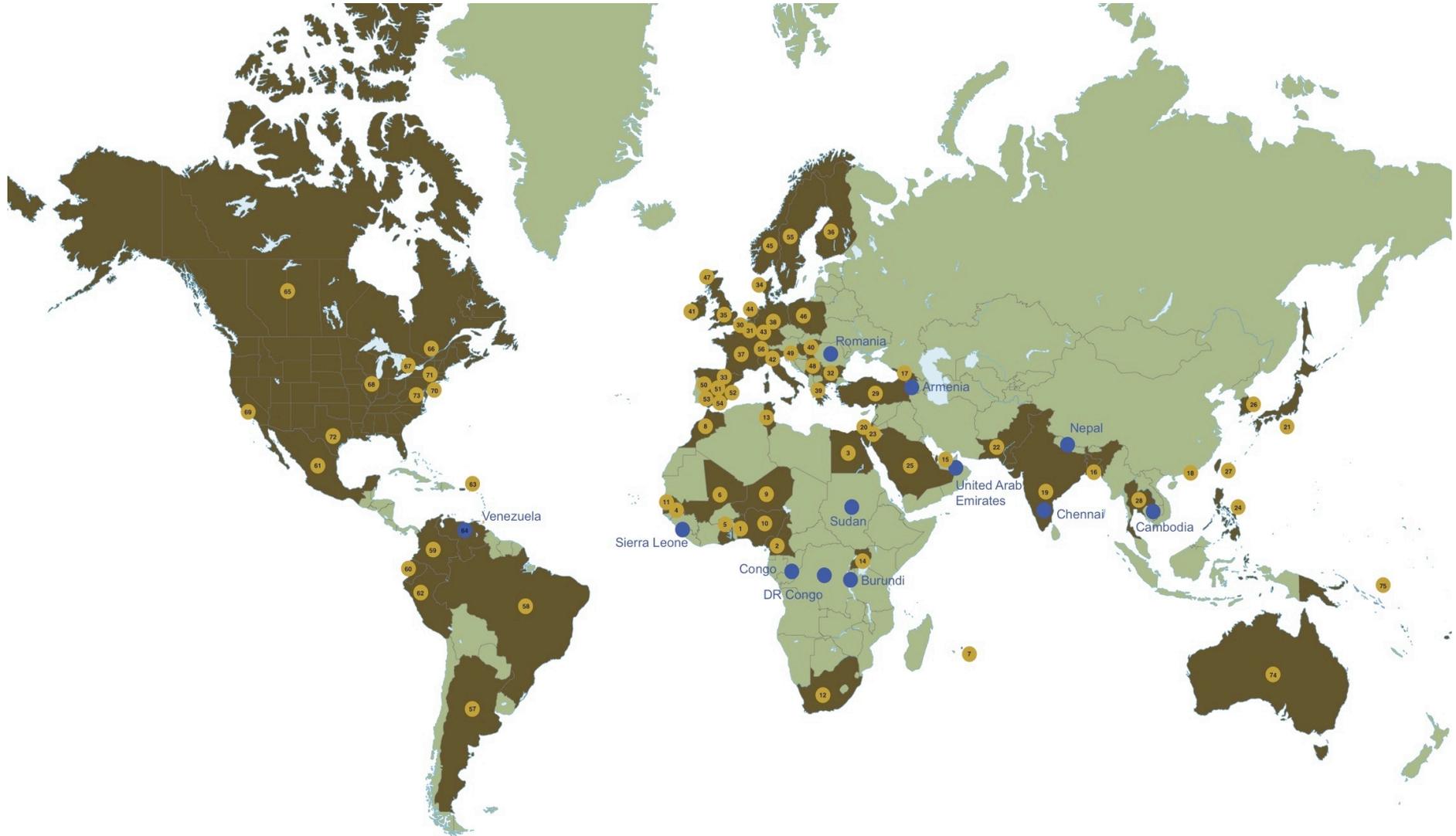
Amsterdam, September 2008



# ISOC Chapters

- Mostly volunteer entities supporting ISOC's Mission & Principles
  - Vital to ISOC's "global" reach
  - Important component of ISOC's Strategic Operating Plan
- Serve interests of local community
  - Organise activities/events/education locally
  - Provide services in local language
  - Amplify ISOC efforts locally/regionally
- Provide local perspective back to ISOC

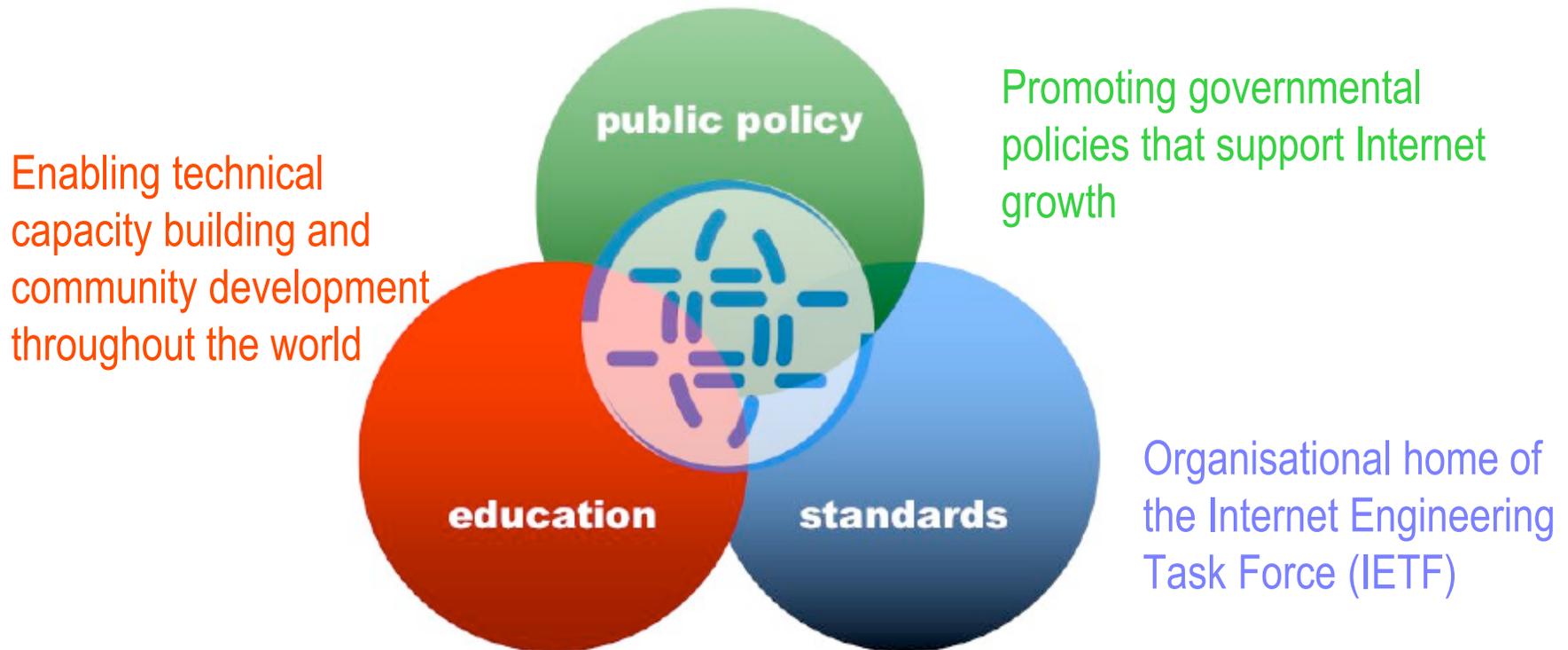
# ISOC Chapters



# What Makes the Internet Society Unique?

- Focus is the Internet
  - Education, Standards, Policy
- Organisational home of the Internet Engineering Task Force (IETF)
- Enable capacity and technical community building throughout the world
- Key player in Internet policy
  - Particularly in the Internet Governance Forum

# What does ISOC do?



Amsterdam, September 2008



# ISOC's Activities

- Education
  - Transfer of technical knowledge
  - Technical workshops, presentations
  - Support of local/regional initiatives and community building
- Policy
  - Education of policy & decision makers
  - Building bridge between Technology and Policy
  - Defending the 'Internet Model' (bottom-up)
- Support for Internet Standards
  - Umbrella organisation for the Internet Engineering Task Force (IETF)
  - Financial, administrative and legal support

Amsterdam, September 2008



# Education Activities - Highlights

- Regional Bureaus (Africa, Latin America, Asia-Pacific)
- Support for Regional Operators Fora (e.g. SANOG, MENOG)
  - Fellowship support, help to find speakers etc.
- ccTLD Workshops
  - Hands-on technical training & tutorials for ccTLD operators
- ISOC Fellowship to IETF
- Workshop Resource Center

# Education Activities

- Support for regional \*NOGs (e.g.SANOG or MENOG)
  - Fellowships for individuals to attend regional operators meetings & technical training sessions
- INET regional conferences
  - Focus on Internet technology & policy issues of regional interest & importance are the focus
- ccTLD workshops and tutorials
  - Hands-on technical training & tutorials for ccTLD operators
- Research/development small grants
  - Support for regional grants programs & ICT projects
- Miscellaneous workshop support

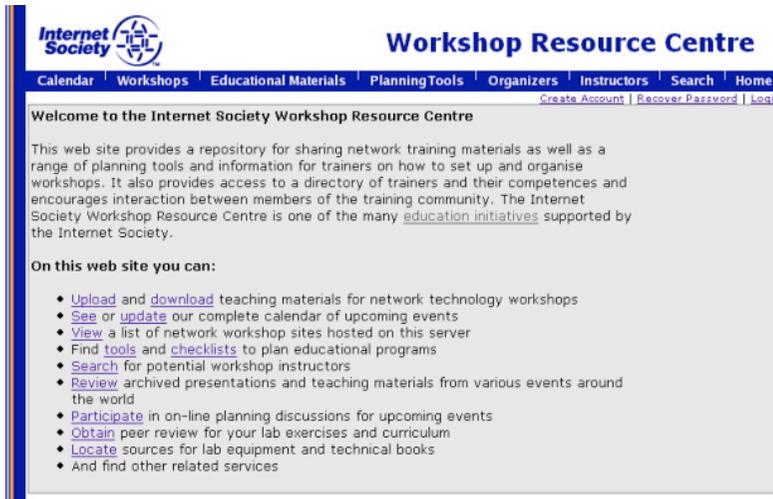
# Education Publications & Resources



The image shows the cover of the IETF Journal, Volume 2, Issue 3, published in November 2006. The cover features the IETF logo and the title 'IETF Journal'. The main article is 'Editor's Welcome' by Mirjam Kühne. A sidebar on the left lists the contents of the issue, including 'Welcome', 'News from the IETF Chair', 'IETF 67 Facts and Figures', 'News from the IAB Chair', 'New BoF Meetings', 'ISOC Fellowship Program', 'IETF 67 Plenary Report', 'Reflections on Internet Transparency', 'Update on IPv6', and 'Host Mobility'. A photograph of San Diego is included, with the caption 'San Diego, site of IETF 67'.

## • IETF Journal

- A review of what's happening in the world of Internet standards with a focus on the activities of IETF Working Groups
- Highlights hot issues being discussed in IETF meetings and IETF mailing lists
- Published 3 times per year
- <http://ietfjournal.isoc.org>



The image shows the homepage of the Internet Society Workshop Resource Centre. The page has a blue header with the Internet Society logo and the title 'Workshop Resource Centre'. A navigation menu includes 'Calendar', 'Workshops', 'Educational Materials', 'Planning Tools', 'Organizers', 'Instructors', 'Search', and 'Home'. The main content area welcomes visitors and provides a list of services, including uploading and downloading teaching materials, viewing a calendar of events, finding workshop sites, tools, and checklists, searching for potential workshop instructors, reviewing archived presentations, participating in on-line planning discussions, obtaining peer review, and locating sources for lab equipment and technical books.

## • Workshop Resource Centre

- On-line repository of presentations and materials from Internet conferences worldwide
- Managed by NSRC
- Improvements planned for 2008
- <http://ws.edu.isoc.org>

# ISOC Policy Activities - Highlights

- Publications on various Internet related topics
- INET conferences
  - Education of policy & decision makers
  - Bridge between policy makers and technical community
- Close cooperation with other Internet organisations
  - RIR's, ICANN, Operators Groups
- Active role in WSIS and now IGF
- Defending the “Internet Model”
  - bottom-up industry self-regulation and decision making

# Internet Governance Forum (IGF)

- Established as a result of the WSIS process
  - Bridging the “digital divide”
- “Multi-stakeholder” forum
  - Governments, private sector, & civil society on equal footing
  - Not a decisional body, no oversight, no duplication
- Capacity building and development
  - Access, security, multilingual/local content & critical Internet resources
- Meets annually, next meeting Rio, Brazil Nov 12-15
  - IGF 2008 hosted by Indian Government in December
- Remote participation [www.intgovforum.org](http://www.intgovforum.org)

Amsterdam, September 2008



# IGF – Key Success Criteria

- Ensure fullest multi-stakeholder participation
- Focus, focus
  - IGF will only be successful if it has a clear, focused and defined agenda
  - Issue focus should be in those areas that impact access to and availability of the Internet
- Minimise costs
  - Account for personnel and financial constraints
  - Limit organisational structures and meetings
- Share, inform, collaborate
  - Promote best practice and expertise sharing
  - Leverage existing organisations and knowledge base

Amsterdam, September 2008



# Standards Activities: IETF Support

- Began at IETF request in 1996
- Organisational home for the IETF
- Legal umbrella & Insurance
- Financial support
  - RFC Editor
  - IETF chair
  - Internet Administrative Director

# ISOC Fellowship Program to IETF

- At the IETF standards for the Internet are developed
- Aims of fellowship programme
  - Raise global awareness of the IETF
  - Allow for better understanding and participation by technical experts from developing countries
  - Provide opportunity for engineers around the world to meet people working in the same field
  - Foster cooperation and collaboration
- First pilot in May 2006

# Mentorship Program & Follow Up

- Every fellow paired with a mentor
  - Experienced IETF participant
  - Working in the same area of interest
  - Preparing the fellow before the meeting
  - Helping the fellow during the meeting (chose WG mtgs. to attend, introduce to people etc.)
- Fellows mailing list
  - Follow-up from time to time (Alumni network)
- Evaluation forms for fellows & mentors
- Must engage in “experience sharing” project on returning to home country

# Application and Selection

- Application process for IETF 70 & 71 has just closed
  - <http://www.isoc.org/educpillar/fellowship>
- Competitive application process
  - Over 200 applications received
  - Many from academic community
- Past fellows:
  - IETF 68: LK, PK, MX, KE, TN
  - IETF 69 NP, MN, UY, CO



# A Few of the People We Reach...



Students and instructors, ccTLD Workshop in Guyana, Feb. 2007



ISOC Fellows at IETF 67 (L to R): Azael Fernandez Alcantara (Mexico), Alfred Prasad (Fiji), and Laupue Raymond Hughes (Samoa)



ccTLD Workshop in Nairobi, Kenya, Sept. 2005



Pre-SANOG Workshop Participants, Bhutan Jan. 2005

Amsterdam, September 2008



# Other Resources

- <http://www.isoc.org>
- <http://ietfjournal.isoc.org>
- <http://ws.edu.isoc.org/>