

#### Fall 2015 Workshop Montreal, Quebec, Canada 3-4 October

#### **SPONSORS**

**GOLD & SOCIAL** 



BRONZE

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# What is Where

- WiFi SSIDs:
  - NANOG-ARIN 802.1x, preferred
  - NANOG-ARIN-legacy Open, caveat emptor
  - Thank You to NANOG for venue and connectivity help !
- Sponsor shirts Saturday PM break
- Break, lunch and toilet locations
- Dietary requirements
- Fire alarm procedure



# What is Where

- Social event 6pm Saturday: http://www.pandore.ca/
  - Name badge required for admission
  - Drinks tickets will be issued on entry
- PGP signing session
  - Sunday lunch break at 1pm
  - Keys to <pgpsign@dns-oarc.net>
- Badges
  - Lanyards:
    - Staff, Board, PC
    - First timers
  - Please return lanyards & holders to desk when you leave



# We are Webcasting

- Google Hangouts/YouTube:
  - https://plus.google.com/+DnsoarcNetPlus/
- Jabber room:
  - xmpp://dns-operations.dns-oarc.net
- Please set your beeping devices to silent
- Please queue at microphone stand, and identify yourself and affiliation before asking a question
- Social media hashtag #OARCworkshop



# Speakers

- Please see me if:
  - You didn't upload your slides yet
  - You have special AV requirements
- Good timekeeping helps ③
- Timeslots include Q&A
  - countdown is to end of slides
- Devices → → mode
- We appreciate your contribution !



### DNS-OARC 2015 AGM President's Report

### Keith Mitchell OARC Fall Workshop & AGM October 2015

### OARC's Mission Statement (revised March 2015)

The Domain Name System Operations Analysis and Research Center (DNS-OARC) is a non-profit, membership organization that seeks to improve the security, stability, and understanding of the Internet's DNS infrastructure.

DNS-OARC's mission is to:

- promote and conduct research with operational relevance through data collection and analysis
- offer useful services and tools
- build relationships among its community of members
- facilitate an environment where information can be shared responsibly
- enable knowledge transfer by organizing open workshops
- increase public awareness of the DNS's significance



# **OARC's Functions**

- Facilitate co-ordination of DNS operations community
- Ongoing data gathering
- Operate community info-sharing resources
- Maintain/host DNS software tools
- Outreach via external and shared meetings



# **OARC Governance**

- Independent legal entity
- Diverse member base
- Financially self-supporting
  - ~\$700k annual revenue ~= expenses
- Self-governing, neutral
- Elected Board reflecting member interests
- Contracted Executive Staff and Secretariat services
- Volunteer workshop Programme Committee
- *501(c)3* non-profit public benefit corporation



### **OARC Status**





# Welcome New OARC Members 😳

Participant ARIN BII Liberty Global Nick Feamster Sinodun Telus Level Bronze Bronze Bronze Supporter Blue Bronze



# Thank You Upgraded Members

- Beneficial to Supporter:
  - CAIDA, Eesti, NIC.AR, Team Cymru, WIDE
- Beneficial to Blue:
  dotUA
- Beneficial to Bronze:
  - Farsight, PIR, PowerDNS, Secure64



# **2015 Achievements**

- Hired Project Development Manager
- Brought over 300TB of new storage capacity online, consolidated >80TB dataset
- Record 9TB DITL 2015 data gathering completed
- Collating RSSAC-002 data from root operators
- Significant subscription revenue growth
- Clean-up of legacy non-paying inactive participant categories
- Board retreat reviewed progress against Strategic Development Plan
- Non-member workshop registration charging introduced



# 2014-5 OARC Board

- John Crain, ICANN, Director
- Ondrej Filip, CZ.NIC, Chairman
- James Galvin, Afilias, Director
- Dave Knight, Dyn, Director
- George Michaelson, APNIC, Director
- Duane Wessels, Verisign, Treasurer



# 2015 OARC Programme Committee

- Sebastian Castro, NZRS (Chair)
- Paul Ebersman, Comcast
- Mauricio Vergara Ereche, ICANN
- Liam Hynes, Dyn
- Geoff Huston, APNIC
- Luciano Minuchin, NIC.AR
- Sean Stuart, Verisign
- Duane Wessels (OARC Board Liaison)



# **DNS-OARC Staff Resources**

- President, Secretary (Keith Mitchell) 0.75 FTE
- Systems Engineer (William Sotomayor) 1.0 FTE
- Project Development Manager (Dalini Khemlani) 1.0 FTE
- Membership Coordinator (Sue Graves) 0.5 FTE
- Events Coordinator (Denesh Bhabuta) 0.1 FTE
- Planned Hires:
  - Software Engineer (1.0 FTE pending funding)
- Under contract from ISC:
  - Finance/Admin functions (Pam Stone)
  - Infrastructure services (Jim Martin/Ops) (ceases in 2016)



# **OARC Infrastructure**

- Functionality, category improvements to member portal
- 10Gb/s network core deployed
- We will need to vacate our existing co-location space at ISC in Redwood City over the coming months ☺
  - requirements/plan being assembled
  - opportunity to diversify our locations
  - we will need member help with this !
- Operating SECIR ccTLD security contacts mailing list
- Experimented with stand-alone Ops-T platform
  - deferred further work until better code base available
- See William's presentation....



# **OARC Workshops**



# Member Workshop Survey

- Last done in early 2013, wanted to re-validate findings:
  - 2 workshops per year
  - 1.5-2 days long
  - co-locate with RIPE/NANOG/ICANN/IETF
- Also check on new charging policy
- Just 17 responses perhaps most representative of summer ennui....



## **Workshop Frequency, Duration**

How many OARC workshops should there

#### ideally be per year? Answered: 16 Skipped: 1 Answered: 16 Skipped: 1 0.5 days 0 1 day 1 1.5 days 2 days 2 >2 days 3 No preference 4 It depends (please... 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 0% 10% 20% 30% 40% 50% 60% 70% 80%

#### What is the ideal length of an OARC workshop for you ?

90%

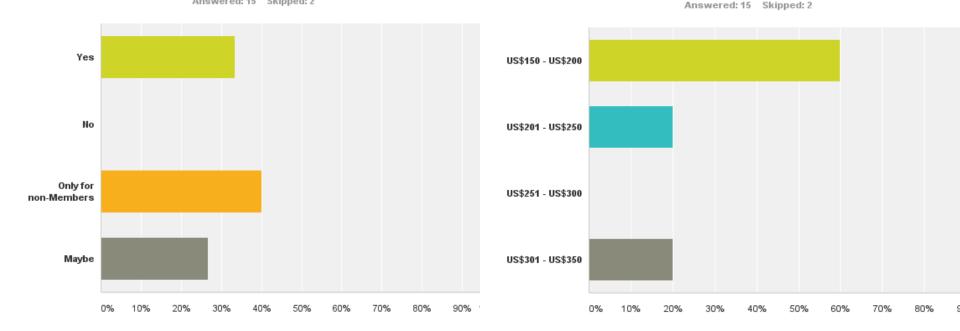


# **Registration Fees**

#### Would you be willing to pay for attending an OARC Workshop?

Answered: 15 Skipped: 2

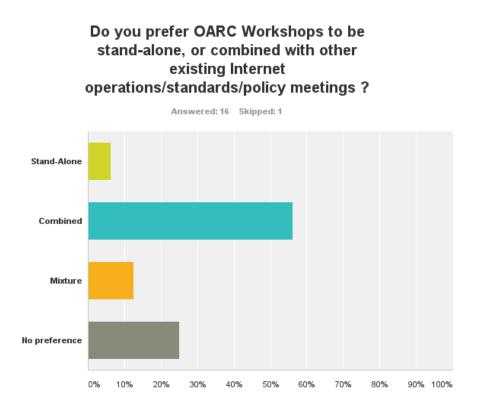
#### If there was a compulsory registration fee, what would you be willing to pay?



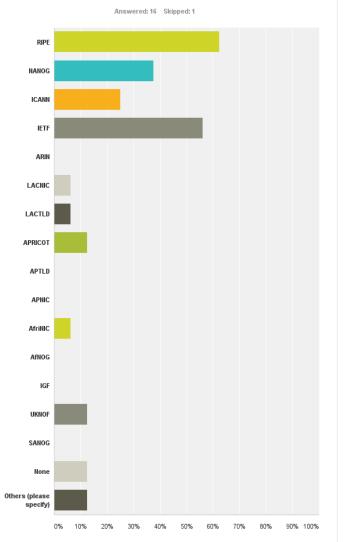
DINS-OARC Domain Name System Operations Analysis and Research Center

### **Co-Location**

Which other Internet/DNS meetings/conferences do you attend? (Select all that apply)

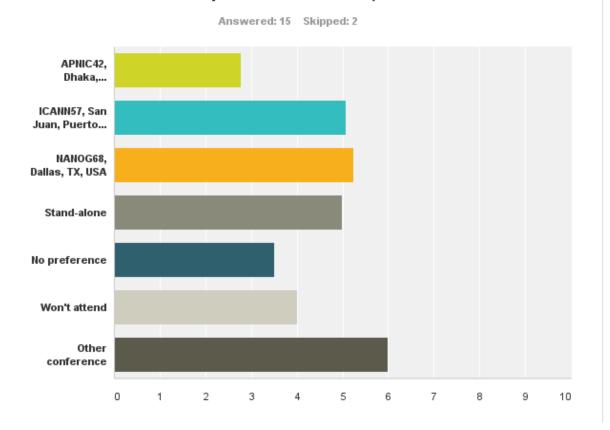






# **Fall 2017 Location**

#### What is your location preference for the Fall 2016 OARC Workshop? (Choose at least 1 option from the list)





# **Future Workshops**

- 1-2 April 2016
  - IETF95, Buenos Aires
  - Hosted by NIC.AR
  - Seeking sponsors
- Fall 2016 ?
  - NANOG68, Dallas
  - ICANN57, Puerto Rico
  - APNIC42/IETF96/97

https://www.dns-oarc.net/files/meeting-sponsor.pdf

DNS-OARC Domain Name System Operations Analysis and Research Center

- Spring 2017
  - RIPE74
  - Location TBC
- Fall 2017
  - NANOG71 TBC

# **OARC** Development



# **OARC Development Progress**

- Strategic plan generated by OARC Board retreat in Q1 2013
- Board reviewed progress against Development Plan at F2F meeting in March 2014 and 2015:
  - work still to be done
  - good progress on revenue growth during 2015
  - on-track with objectives 2 years into 3-year plan
  - project funding still elusive
    - major effort into RFP bid during summer unsuccessful 🙁
- Governance changes behind us for now !



### **Membership Category Changes**

- Replaced Associate/Affiliate/Contributor and Beneficial status with a single non-paying non-voting "Supporter" category
- Contributions in-kind required at least once per year
  - requires formal commitment which is being tracked
- Nearly all Beneficial members have been migrated to Supporter or Blue category
- Aim to migrate all non-paying Participants by end 2015
- Participants left in a legacy category at end 2015 will cease
- Please contact Sue Graves at <admin@dns-oarc.net> if you are still in a legacy non-paying category



### **New Membership Categories**

- New entry-level paying member category "Blue"
  - limited to organizations below a certain size, or individuals
  - initially max \$1M revenue or 10 employees (can apply to groups not whole institution)
  - \$1k/year subscription
- Also increased minimum threshold for Platinum membership from \$12.5k to \$20k
- New Diamond category at \$40k
  - Thank You Verisign 🙂



### **Data Sharing Agreement**

- Separation of a Data sharing agreement from the Membership agreement
- Defines "Information" as something different from "Data", and is shared among Members only
  - attack/vulnerability intelligence, outages, confidential new research, contact info
- Original text from 2014 AGM had some bugs and contradictions
- Text being revised to make researcher obligations over use of OARC data clearer, and clarify notifications, sanctions, confidentiality defaults



# Achieving Sustainability

- ~3.3 FTEs total lets you run an organization, or grow and develop it, but **not** both at same time
- Previous staff have struggled with this, ideally we need 4-5 FTEs for sustainable autonomy
- We have made great progress with organic revenue growth in the past ~3 years, but we need additional income sources
- Project and grant funding is in the development plan
- Project Development Manager has been working on various proposals to raise such funding, which can then be used to support Software Engineer hire



# Our "Ideal" OARC: Expenses

- Around \$400k/year running costs:
  - Infrastructure
  - Workshops, travel
  - Admin
  - Overheads
- Around \$600k/year staff costs:
  - Engineering: *2 FTE*
  - Project Management: 1 FTE
  - Outreach/sales/marketing: 1 FTE
  - Admin/Finance: 1 FTE
  - Leadership: 1 FTE



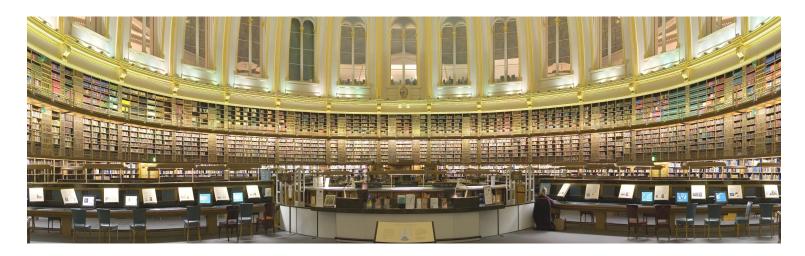
# 2015 Board Retreat Conclusions

- Need to work on articulating OARC's value proposition, to retain and grow member base
- Workshops working well
- Time to re-start initiative for future of DSC
- Data collection faces increasing challenges
  - privacy, contributions, geodiversity, friendliness
- Need to do further stakeholder survey polling
- Continue work on identifying project priorities





#### **OARC's Value Proposition**



OARC is a prestigious library specializing in the DNS. We do our best to index a large collection of data in perpetuity, and because we're a neutral organization we strive to make the library accessible and welcoming to all researchers and operators of the DNS. For our members we offer private meeting rooms (mailing lists) where they can discuss and collaborate on current DNS Operations. At our upper levels you'll find our most precious archives and artifacts, set aside behind glass for safe keeping. We also have a Friends of the Library Program, where an exclusive group of members and guests gather on a semi-annual basis at our workshops to share their ideas, incentivize and encourage research, and catch up on the latest industry

# DNS-OARC 2014-5 Finances



# **DNS-OARC** Financials

- Accounts for 2014 have once again been audited with clean bill of health
  - see Treasurer's Report
- AGM seeking formal approval of 2014 audited accounts
- 2014 finished with small surplus
- Projected deficit for 2015 is intentional growth investment



# **Financial Overview**

	2013	2014	2015 YTD	2015 Budget
Income	\$440k	\$465k	\$389k	\$664k
Expenses	\$337k	\$450k	\$439k	\$698k
Assets	\$405k	\$436k	\$454k	
Cash	\$295k	\$347k	\$330k	\$312k



# **Income Summary**

	2013	2014	2015 YTD	2015 Budget
Member fees	\$311k	\$406k	\$331k	\$517k
Donations	\$93k	\$9k	\$0k	\$20k
Workshop Sponsorship, fees	\$36k	\$50k	\$52k	\$77k
<b>Project Funding</b>	\$0k	\$0k	\$6k	\$50k
TOTAL	\$440k	\$465k	\$389k	\$664k



# **Expenditure Summary**

	2013	2014	2015 YTD	2015 Budget
Consultants/ Professional	\$235k	\$279k	\$299k	\$443k
Capital Equipment	\$20k	\$37k	\$19k	\$51k
Co-location	\$8k	\$12k	\$9k	\$20k
Workshops	\$74k	\$50k	\$45k	\$88k
Other		\$72k	\$67k	\$96k
TOTAL	\$337k	\$450k	\$439k	\$698k



# AGM Resolutions and Board Elections



# **AGM Resolutions**

- 1. To approve the audited OARC, Inc. financial statements for the fiscal year 2014
- 2. To approve the Minutes of the 2014 OARC, Inc AGM
- 3. To elect three member representatives to the OARC Board
  - https://www.dns-oarc.net/oarc/agm-2015/elections



# **Board Seats**

- Existing Board member **Duane Wessels** (for **Verisign**) has served for two-years and his seat is up for election by rotation. Duane will be standing for re-election.
- The Board seat held for **Dyn** by **David Knight** since April 2015 has reached the end of its two-year term, and is up for election by rotation. Dave will be standing for re-election.
- The Board seat held for **Afilias** by **James Galvin** since October 2014 has reached the end of its two-year term, and is up for election by rotation. Jim will be standing for re-election.
- Paul Ebersman is standing for election as Comcast's representative.



# **Questions** ?



# **Contacting OARC**

- Member Portal:
  - https://portal.dns-oarc.net/
- <admin@dns-oarc.net> +1 650 423 1344
  - <dalini@dns-oarc.net> +1 650 423 1448
  - <denesh@dns-oarc.net> +1 650 423 1455
  - <keith@dns-oarc.net> +1 650 423 1348
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  - <wfms@dns-oarc.net> +1 650 423 1447

