ARIN 44

31 October - 1 November 2019 • Austin, Texas

2019 ARIN Elections

Wendy Leedy
Member Engagement Specialist

Voting Details

- **Who:**
  - **Eligible Voting Contacts**
    - General Members in Good Standing as of 16 September 2019
    - Have a Voting Contact linked to an ARIN Online account

Voting Details

- **What:**
  - **Elect**
    - Two (2) candidates to the ARIN Board of Trustees
    - Five (5) candidates to the ARIN Advisory Council
    - One (1) candidate to the NRO Number Council

Voting Details

- **When:**
  - **Voting Opens**
    - 4:00 PM ET on Thursday, 31 October 2019
  - **Voting Closes**
    - 6:00 PM ET on Friday, 8 November 2019

Voting Details

- **Where:**
  - **Online**
    - Office or Home Computer
    - Mobile Device

Voting Details

- **How:**
  - **4 Simple and Quick Steps**
    - Visit www.arin.net
    - Log in to ARIN Online
    - Click the "Vote Now" link that appears on your dashboard
    - Vote

Key Election Dates

- Call for Nominations

  15 July – 22 August

- Call for ARIN Board of Trustees Nominations Extended

  30 August – 4 September

- Deadline to Establish Voter Eligibility

  16 September

- Initial Slate of Candidates Announced / Call for Petitions and Statements of Support Open

  23 September

- Intent to Petition Deadline

  30 September

- Final Slate of Candidates Announced

  9 October

Key Election Dates

- NRO Number Council Election Opens for NANOG and ARIN Meeting Attendees   28 October

- Voting for Eligible ARIN Voting Contacts Opens   31 October

- Voting Closes   8 November

- Elected Representatives Announced   Week of 11 November

Cast Your Ballot

Step 1: Go to www.arin.net and click on Log In

Cast Your Ballot

Step 2: Enter Your Username and Password

Account Manager

New here? Create a user account

Username   Forgot username?

Password   Forgot password?

Username and Password are case sensitive.

Log In

About Account Manager

Lost access to your authenticator?

Cast Your Ballot

ARIN 44

ARIN 🏠   Feedback   🔔 👤 Welcome, John ▾

ACCOUNT MANAGER

- 🎛 **Dashboard**
- Tickets
- Your Records ▾
- IP Addresses ▾
- ASNs ▾
- Transfer Resources
- Payments & Billing
- Downloads & Services
- Ask ARIN
  Create a help desk ticket

Dashboard

Alerts

☑ Cast your ballot! Voting for the 2019 ARIN elections is now open. Vote now!

Account Snapshot

DOEJO26-ARIN
Point of Contact record (POC)

ABC-601
Organization Identifier (Org ID)

NET6-2605-67C0-1
Network (NET)

AS3837
Autonomous System Number (ASN)

❓ What's New With ARIN Online

Visit ARIN Online Functionality for an overview of all the functionality currently available within ARIN Online.

Step 3: Click "Vote Now!" Link

Voting Process

ARIN ELECTIONS ☑

Signed in as **wendyleedy** · **Sign-out** · **Contact**

Transparency Agreement

By submitting your vote, you acknowledge that ARIN will receive a copy of your ballot selections. ARIN receives this information in order to administer the election and audit the accuracy of the election results. ARIN will not disclose to any third party how specific votes or ballots are cast absent written authorization from your organization to do so, or a duly entered court Order, subpoena or similar form of legal process.

I agree

Step 4: Click "**I agree**"

I disagree

Contact · Privacy Statement · Website Terms and Conditions · Disclaimer
Statement of Independence

Voting Process

Tip

A Voting Contact for only one eligible ARIN Member Organization will have a vote weight of 1.

A Voting Contact for more than one eligible ARIN Member Organization will have a vote weight number that is equal to the number of organizations they are voting on behalf of.

Vote Weight Options

For Vote Weights Greater than 1

Option 1:

Leave vote weight as is to cast the same ballot multiple times.

By selecting this option you will advance to the next ballot in ARIN's Elections until you have participated in all three elections.

Vote Weight Options

For Vote Weights Greater than 1

Option 2:

Change vote weight to cast multiple ballots to vote for different candidates.

Once you click "submit," with your new vote weight, a new ballot screen will appear, allowing you to repeat this process until all of your vote weights have been used.

Voting Process

Voting Process

ARIN
ELECTIONS ☑

Signed in as **wendyleedy** · **Sign-out** · **Election** · **Contact**

Please review and confirm your choices.

Please confirm your selections before proceeding to the next poll.

2019 ARIN Board of Trustees Test Election

Select up to 2 candidates for the ARIN Board of Trustees. By clicking on a Candidate's name, you can view their biography.

You can view Statements of Support for candidates here.

Number of votes used: 3

- Candidate 1

- Candidate 2

After confirming, your vote receipt notification will be sent to your email address:
wendy@arin.net

Note: Both your vote selections and vote receipt code will be included in the vote receipt notification sent to your email address.

Confirm   Back to make a correction

Click Confirm to Cast Ballot

Click Back to Revise

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Voting Process

Voting Process

Reminder

Complete these steps again for:

1. **ARIN Advisory Council**

2. **NRO Number Council**

Voting Process

Vote Confirmation

Signed in as **wendyleedy** · **Sign-out** · **Election** · **Contact**

Thank you for Voting in the 2019 ARIN Elections!

Click to view vote receipt

Like to make a comment?

Sign-out

Vote receipt

You voted as sign-in name: wendyleedy
Vote submitted from IP address: 192.136.136.238

2019 ARIN Test Elections

2019 ARIN Board of Trustees Test Election (ID# 154256)

Your vote was recorded as:
- Name   (ID# 16014316)

Vote receipt code **PHHEJHZT5p**
This vote was recorded: Monday 30 September 2019 14:33 EDT
This vote has a weight of: 2

Your vote was recorded as:
- Name   (ID# 16014314)
- Name   (ID# 16014317)

Vote receipt code **zNz8bPtMK5**
This vote was recorded: Monday 30 September 2019 14:30 EDT
This vote has a weight of: 3

2019 ARIN Advisory Council Test Election (ID# 154257)
Your vote was recorded as:
- Name   D# 16014321)
- Name   (ID# 16014322)
- Name   ID# 16014327)
- Name   (ID# 16014324)
- Name   (ID# 16014325)

Vote receipt code **Nje5tmqgXf**
This vote was recorded: Monday 30 September 2019 14:34 EDT
This vote has a weight of: 5

2019 NRO NC Test Election (ID# 154258)
Your vote was recorded as:
- Name   D# 16014329)

Vote receipt code **rwa8stmwBt**
This vote was recorded: Monday 30 September 2019 14:35 EDT
This vote has a weight of: 5

ID# is the permanent identification number of the selected choices in the database.

close window

Vote Confirmation

Vote Confirmation

ARIN Elections <votereceipt@bigpulse.com>
wendy@arin.net;   votereceipt@arin.net
Monday, September 30, 2019 at 2:36 PM
Show Details

🔒 This message was digitally signed by "votereceipt@bigpulse.com".   Details

Dear Wendy,

Greetings! My name is Wendy Leedy and I am the Member Engagement Specialist at ARIN. On behalf of ARIN, the ARIN Board of Trustees, and myself, I'm writing to personally thank you for serving as your organization's Voting Contact and for taking time to cast an online ballot in this year's 2019 ARIN Elections. Your participation in this year's elections will help to elect two representatives to the ARIN Board of Trustees, five representatives to the ARIN Advisory Council, and one representative to the Number Resource Organization Number Council. Your time and vote gave your organization an equal voice and participation in this year's elections, and demonstrated a commitment to helping shape the future of ARIN, your community, and the Internet as a whole. Thank you for exercising your right to vote! I look forward to your participation in next year's nominations process and to your continued support of and participation in ARIN's Elections. If you have feedback regarding ARIN's nomination and/or elections process, or if you have statements on the value of voting in ARIN's Elections you wish to share, please email me directly at wendy@arin.net anytime. Thank you for your ongoing involvement in and support of your community and ARIN! Best regards, Wendy   Leedy Member Engagement Specialist American Registry for Internet Numbers (ARIN) E: wendy@arin.net T: 703.227.9840, x834

You voted as sign-in name: wendyleedy
This vote was recorded: Monday 30 September 2019 14:30 EDT
Vote submitted from IP address: 192.136.136.238
This vote has a weight of: 3
2019 ARIN Board of Trustees Test Election (Poll ID: 154256)

Vote receipt code **2Nz8bPtMK5**
Your vote was recorded as:

- Candidate 1   ID#16014314)
- Candidate 2   (ID#16014317)

ID# is the permanent identification number of the selected choices in the database.

If you did not submit this vote or have an important comment to make please immediately click the link below:
https://www.bigpulse.com/feedback?link=aLAtAHXTBOKOyDTA2SRBgiJM0GC6BjI4PUq9Ag&lang=

ARIN Elections Reminders

- **Review the ARIN Elections 2019 Voter Guide at:**

  https://www.arin.net/elections/

- **Read and Make Statements of Support at:**

  https://www.bigpulse.com/p56129/

- **VOTE Thursday, 31 October through Friday, 8 November**
  - **Eligible Voting Contacts log in to ARIN Online at www.arin.net to vote**

- **Remember, Polls Close Sharply at 6:00 PM ET Friday, 8 November**

???
Thank you.
Any Questions?

- Email members@arin.net

- Submit an ARIN Online ticket by selecting Meeting/Elections

2019 Candidate Speeches

- **Number Resource Organization Number Council**

- **ARIN Advisory Council**

- **ARIN Board of Trustees**

NRO Number Council

- Aaron Hughes, 6connect, Inc.
- Martin Hannigan, Deep Edge Holdings, Inc.
- Dave Täht, Bufferbloat.net

Aaron Hughes
6connect, Inc.

- PeeringDB, Board Member, President, and Chairman
- Open-IX, Board Member, Chairman of the Board
- UnitedLayer, Chief Network Architect
- 25+ years industry experience, operator, policy, and peering forums.
- Participated at RIR meetings in all five regions.
- Serving the Internet community in the ARIN region through:
  - ARIN Board of Trustees (two three year terms)
  - ARIN RIR Attendee / Community Member and Contributor (15 years)
  - Currently serves on many boards supporting Operators, Policy makers, IP Analysts, Peering Coordinators.
  - 20 years of volunteering/elected experience serving the Global Internet community.
- **LinkedIn**: https://www.linkedin.com/in/aaronhaaronh/

Martin Hannigan
Deep Edge

- Founder and Chief Executive Officer of Deep Edge.
- Long term involvement with ICANN, RIR's, and the NRO-ASO/AC.
- Serving the Internet community in the ARIN region through:
  - NANOG Mailing List Chair (2005 – 2006)
  - NANOG Member (2011 – Present)
  - ICANN NRO-NC/ASO-AC (2006 – 2010 Representative from the ARIN region)
  - CaribNOG participant (2009 – Present)
  - ICANN Security Stability and Resilience Review Team (2) (Appointed IGNSO Representative) (2010 – 2012)
  - ARIN Advisory Council (2011- 2012)
  - ICANN GNSO Registry Stakeholders Group Member (2014 – 2016)
  - Toronto-IX Vice President and Director (Canada) (2011 – 2015)
  - Open-IX Founder and Director (Global) (2013 – 2017)
  - Founder, New England Peering Forum (Boston) (2016 – Present)
- **LinkedIn**: https://www.linkedin.com/in/martyhannigan

Dave Täht
Bufferbloat.net

- Deeply involved in the FOSS world for decades.
- Serving the Internet community in the ARIN region through:
  - Founded an ISP in Florida in 1994 and sold it in 1999.
  - Helped make embedded Linux a reality.
  - Helped invent WiFi as we know it today (1998-Present).
  - Worked on OLPC (One Laptop Per Child) for five years in Nicaragua.
  - Spent eight years solving the worldwide bufferbloat problem with new algorithms like fq_codel (RFC8290), which is now the degault in Linux, OSX, and IOS, and a core component in many SQM (qos) systems.
  - Through the cerowrt project (2011-2014) made a goodly portion of the edge of the Internet work better with IPv6.
- **Other:** https://www.bufferbloat.net

ARIN Advisory Council

- Tina Morris, Amazon Web Services
- Joe Provo, Google
- Alyssa Moore, Canadian Internet Registration Authority
- Owen DeLong, DeLong Consulting
- Steven Wallace, Indiana University
- Alison Wood, State of Oregon
- Anita Nikolich, Illinois Institute of Technology
- Jeffrey Anderson, Implex.net
- Matthew Wilder, TELUS Communications

Tina Morris
Amazon Web Services

- Served two terms, six years, on the ARIN Advisory Council and two years as Chair.

- Attended all ARIN Meetings since 2009.

- Five years as Senior Technical Business Developer – IP Address Strategy at Amazon Web Services.

- Eleven years as a Principal Network Engineer at TWC/BrightHouse Networks.

- Six years experience providing cryptologic technician maintenance for the U.S. Navy.

- Supports registry accuracy.

- Experience advising leadership in matters related to number policy.

- Active participant in the IPv4 transfer market and IP Address Policy.

Joe Provo
Google

- Served one term, three years, on the ARIN Advisory Council.

- ARIN Policy development work includes author of NRPM editorial cleanups and policy proposals, Shepard duties, proposed and championed the "narrow" restrictions to restart the waiting list.

- Routinely serves as an ARIN Mentor to incoming ARIN Fellows.

- Served on the NANOG Steering Committee and Board of Directors.

- Has served as the K12.MA.US delegated manager since 1994.

- previously work at RSUC, UltraNet, RCN, and ITA Software.

- Advisory work demonstrates the impression of the the ARIN community's will and commitment to having the community's needs heard.

- **LinkedIn:** https://www.linkedin.com/in/jprovo/

Alyssa Moore
Canadian Internet registration Authority

- Served one term (three years) on the ARIN Advisory Council
- Sr Policy & Advocacy Advisor at the Canadian Internet Registration Authority (CIRA)
- Previously: Policy & Strategy Advisory at Cybera
- Participant at ICANN and the IGF
- Board of Directors at the Internet Society Canada Chapter and QIX (the Montreal Internet Exchange)
- Steering Committee of the Canadian IGF
- Strengths in building relationships, human capacity, and consensus – necessary skills for shepherding policy and facilitating the PDP
- Committed to an accurate registry and an IPv6 future
- BA Hons in Political Science from Carleton University

- **LinkedIn:** https://www.linkedin.com/in/**lyssamoo/**

Owen DeLong
DeLong Consulting

- Served four terms, 12 years, on the ARIN Advisory Council.

- Involved with ARIN since 1997.

- Contributed to the content of the Number Resource Policy Manual and remains committed to working with ARIN's community to preserve a bottom-up stakeholder driven processes and improving ARIN Policy to benefit the community and Internet.

- Committed to moving the Internet forward with IPv6.

- Supports making Internet number resources available to as many people as possible.

- **ARIN Advisory Council Biography:** http://www.arin.net/about_us/ac.html

Steven Wallace
Indiana University

- **Committed to representing community members' ideas and recommendations clearly and in a form consistent with ARIN Policy.**

- Passion to improve the effective use of advanced networking within the US higher education and research community.

- Leads Indiana University's and Internet2's outreach efforts to improve the adoption of Mutually Agreed Norms for Routing Security (MANRS) and serves as an Enterprise Architect and Cybersecurity Advisor.

- Over 30 years experience of working to expand the use and availability of advance Internet capabilities within the US higher education community.

- Active in the national network-related activities of organizations such as Educause, Internet2, and The Quilt.

- **E-mail: ssw@iu.edu**

- **LinkedIn:** https://www.linkedin.com/in/steven-wal-lace-8a6868162

- **Biography:** https://itnews.iu.edu/people/ssw.php

Alison Wood
State of Oregon

- Served one term, three years, on the ARIN Advisory Council.
- ARIN 37 Fellow, served as an ARIN Mentor to an incoming ARIN Fellow, and has attended all ARIN Meetings in-person since 2015.
- Committed to listening to community members ideas and helping them develop that into a policy proposal.
- Lead Analytics Engineer at the Oregon State Data Center.
- BS in Computer Science, with a focus on data centers and enterprise networking.
- Current Women's Masters High Jump World Champion/World Record holder
- **Twitter:** https://twitter.com/wood_alison?lang=en

Anita Nikolich
Illinois Institute of Technology

- Three years as a Security Engineer at SAIC.
- Three years as Security Operations Director at Intermedia Communications.
- Six years as Global Telecommunications Director at Computer Science Corporation.
- Five years as an Executive Director, Infrastructure, at the University of Chicago.
- Five years experience in Cybersecurity.
- Breadth of experience as both a provider and consumer of network services.
- Background is a combination of Federal government, the Research and Education/Scientific community, the security community, and private industry.
- Serves on the Advisory Board for the RPKI pilot project for the California State Research and Education Network (CENIC).
- Member of the Working Group on Cybersecurity for the NSF funded Midwest Big Data Hub.
- An organizer of the AI Village at DEF-CON.
- Previously served on the Engineering Advisory Community for the Illinois Century Network (ICN), the Technical Advisory Committee for the Midwest Research and Education Cooperative Network, and the Cisco Higher Ed Technical Advisory Board at Cisco.

Jeffrey Anderson Implex.net

- Twenty years experience as a Senior Network Engineer for Internet Service Providers.

- Vessel Safety Examiners Staff Officer for the United States Coast Guard Auxiliary.

- Experience serving the United States Coast Guard and Federal Emergency Management Agency.

- Thorough understanding of how ARIN's policies and procedures have helped facilitate efficient use of IP resources for companies and government agencies of all sizes.

- ARIN 43 Fellow.

- Fundamental key to being effective in an advisory position is the ability to listen objectively and collaboration.

- **LinkedIn:** https://www.linkedin.com/in/jeffrey-sparky-ander-son-1a61b926/

Matthew Wilder
TELUS Communications

- Senior Engineer at TELUS Communications.
- Over 14 years experience in the telecommunications industry with 10 years specifically in IP Address Management and IPv6.
- Passionate about driving IPv6 adoption.
- Presenter at industry forums, including IPv6 World Congress and CaribNOG.
- Volunteer as a Section Executive of the Vancouver section of the Institute of Electrical and Electronics Engineers.
- Bachelor of Applied Science from the University of British Columbia, and Master of Business Administration from the University of Victoria.
- ARIN 43 Fellow.
- Regularly participates in ARIN Meetings in person or remotely.
- Committed to consensus building to successfully Shepard policies for community adoption.
- **LinkedIn:** https://www.linkedin.com/in/matthewwilder/

ARIN Board of Trustees

- Patrick W. Gilmore, Addrex
- Catherine Middleton, Ryerson University
- Jacob Glick, North Inc.
- Bill Sandiford, Intelligens
- Bram Abramson, Technology Counsel

Patrick W. Gilmore
Addrex

- Current member of the ARIN Board of Trustees (since 2016).
- Vice-President Marketplace Services at Addrex and Founder and Special Board Advisor at Deep Edge.
- Most recent past positions:
  - CTO at Markley Group
  - Chief Network Architect at Akamai Technologies
- Has worked on the Internet for more than two decades.
- Currently serves on the following boards:
  - PeeringDB
  - North American Network Operators' Group (NANOG)
- Previously served on the Seattle Internet Exchange (SIX) and London Internet Exchange (LINX) corporate boards.
- Bachelor of Science in Mathematics from UCLA.
- **LinkedIn**: https://www.linkedin.com/in/ianai/

Catherine Middleton
Ryerson University

- Professor and Interim Director of the Ted Rogers School of Information Technology Management (TRSITM), Ryerson University.
- Business School Professor and Information Technology Researcher with 20+ years of experience working on telecommunications policy issues.
- Previously served on the following boards:
  - CANARIE (canarie.ca, Canada's national research and education network; Former Board Chair, 2011 – 2019)
  - Compute Ontario (computeontario.ca, 2014-2019).
- Board experience includes serving as Board Chair and Vice-Chair and has chaired Executive, Governance and Nominating, and Audit Committees. ICD.D director training.
- Honours Bachelor of Arts, Queen's University, Kingston, Canada
- Master of Business Administration, Bond University, Gold Coast, Australia.
- Doctor of Philosophy (PhD), Schulich School of Business, York University, Toronto, Canada.
- **Twitter**: https://twitter.com/catmiddleton
- **Other:** https://people.ryerson.ca/cmiddlet/

Jacob Glick
North Inc.

- General Counsel, specifically Head of Legal, Public Policy, Government Relations, Intellectual Property, Regulatory and Corporate Governance at North Inc.
- Global leader on complex issues at the intersection of technology, public policy, and law.
- Formerly Chief Corporate Affairs Officer of Rogers Communications Inc. and Head of the Central Public Policy and Government Relations team at Google where he founded and led Google Canada's Public Policy and Government Relations team.
- Has served on numerous boards, currently:
  - Board, Canadian Wireless Telecommunications Association
  - Nomination Committee, Canadian Internet Registration Authority (CIRA)
  - Senior Executive Fellow, Centre for International Governance Innovation (CIGI)
  - Executive Committee, Canadian Internet Policy Public Interest Clinic (CIPPIC)
  - University of Ottawa Faculty of Law
- Honours Bachelor of Arts with High Distinction and Bachelor of Laws, University of Toronto
- **Twitter**: https://twitter.com/jacobglick
- **LinkedIn**: https://www.linkedin.com/in/jacobglick/

Bill Sandiford
Intelligens

- Current member of the ARIN Board of Trustees (since 2013); Current Vice Chair.

- Former ARIN Advisory Council Member from 2009 to 2013.

- President of Intelligens.

- Over 22 years of senior management experience in the ISP and telecommunications business.

- Currently serves on The Canadian Internet Registration Authority; Co-Chair the Community Investment Committee.

- Founding Board member of Canadian Network Operators Consortium (CNOC).

- **Twitter**: https://twitter.com/Bill_Sandiford

- **Other**: http://www.billsandiford.ca/aboutme/bio/index.html

Bram Abramson

- **As 1:223/110:** My wayward youth on FidoNet.

- **As an analyst:** Mapped submarine cables, parsed way too many traceroutes (TeleGeography), became a telecom regulator (CRTC).

- **As a lawyer:** Regulation, governance, privacy, trademarks, and other thrilling topics for telcos large & small (McCarthy Tétrault). Then a giant-slaying indie telco (TekSavvy), a digital rights sabbatical (Mozilla), a blockchain interlude (Decentral). Now a broad consulting practice.

- **On boards:** Free Geek Toronto, which refurbishes computers. Commission for Complaints for Telecom-television Services, on behalf of all of Canada's not-large telcos & TV providers. **And committees:** Ontario Securities Commission, on fintech innovation; CIRA's community investment committee.