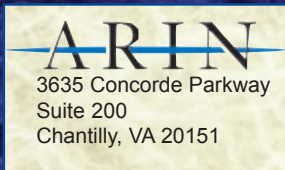




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2nd Quarter 2003



## Mission Statement

Applying the principles of stewardship, ARIN, a nonprofit corporation, allocates Internet Protocol resources; develops consensus-based policies; and facilitates the advancement of the Internet through information and educational outreach.

## News from ARIN XI

Featured policy and member discussions, and an IPv6 Mini-workshop

The American Registry for Internet Numbers held its ARIN XI meeting April 6 - 9, 2003 at the Peabody Hotel in Memphis, Tennessee. ARIN would like to extend its thanks once again to the sponsors of the meeting: NASA and Comcast. Their sponsorship and support helped make this one of the best ARIN meetings yet.

### ARIN XI Meeting Highlights

There were 105 ARIN XI registrants, representing 19 states, the District of Columbia, and 6 countries. Twenty-eight of those were attending an ARIN meeting for the first time. Links to the presentations and minutes of the entire meeting are available at:

[http://www.arin.net/library/minutes/ARIN\\_XI/](http://www.arin.net/library/minutes/ARIN_XI/)



The meeting started on Sunday, April 6, with an IPv6 Mini-workshop. The session began with an "Introduction to IPv6" presentation by Thomas Narten of IBM and ARIN's IPv6 Working Group Chair. This was then followed by a panel of vendors comprised of Tony Hain from Cisco, Terry Murray of Juniper Networks, and Chris Mitchell from Microsoft. This panel focused on presenting a reality check from a vendor standpoint on implementation issues with IPv6. Discussion in this vein was continued with the next panel, where Shankar Rao of Qwest and ARIN's Director of Operations Richard Jimmerson discussed how and in what degree IPv6 was currently being deployed.

Richard and Leslie Nobile, ARIN Director of Registration Services, ended the workshop with a presentation focusing on IPv6 and the Regional Internet Registries.

**Continued on page 4**

## NANOG and ARIN, Together Again!

Second year of back-to-back meetings promises opportunity to increase your involvement

Set aside October 19-24, 2003 to join network operators and Internet Protocol address managers in technical presentations and policy discussions.

Chicago will serve as the meeting locale to bring NANOG and ARIN together for a second time. Sunday, October 19, NANOG 29 opens with afternoon tutorials, followed by two days of presentations. ARIN XII then begins with two days of Public Policy Meetings on Wednesday, October 22 and Thursday, October 23.

ARIN's Members Meeting takes place on Friday, October 24. Registration information and meeting agendas will be available later this summer on the organizations respective websites:

<http://www.nanog.org/>

<http://www.arin.net/ARIN-XII/>

Sponsorship opportunities throughout the week are available. Interested parties should contact Edward Pizzarello at 703-227-9878 or [edwardp@arin.net](mailto:edwardp@arin.net).



## Internet Community Calendar

**IETF 57**, July 13-18, 2003, Vienna, Austria

**APNIC 16**, August 19-22, 2003, Seoul, Korea

**RIPE 46**, September 1-5, 2003, Amsterdam, the Netherlands

**NANOG 29**, October 19-21, 2003, Chicago, Illinois, United States

**ARIN XII**, October 22-24, 2003, Chicago, Illinois, United States

## Internet Community Meeting Reports

### **LACNIC IV** **April 23-25, 2003** **Santiago, CL**

The LACNIC IV Meeting was held in Santiago, Chile, April 23-25. The meeting was well attended by representatives of the LACNIC community and members of the other Regional Internet Registry communities. The first day of the meeting consisted of two tutorials focusing on BGP peering security and LACNIC registration services.

The second day of the meeting featured the LACNIC Member General Assembly where discussions of modifying LACNIC's Bylaws were held. Also discussed during this session were the LACNIC 2002 Annual Report and election procedures. In the afternoon of the same day, the Address Support Organization (ASO) General Assembly was hosted by LACNIC. More information about the ASO is available at <http://aso.icann.org>.

The final day of LACNIC IV was dedicated to open policy discussions. Several proposed policies were discussed and approved at the meeting. Some of the policy topics discussed were: bulk WHOIS distribution; IPv6 micro-allocations; multi-homed micro-allocations; lame delegation; and resource allocations for experimental uses. The open policy meeting session ended with a period of open microphone so any topic that was not already covered by the agenda could be discussed.

The LACNIC IV Meeting was held with simultaneous language translation offered at all times for Spanish, Portuguese, and English.

Additional information is available at:

<http://www.lacnic.net/en/meetings.html>.

### **RIPE 45** **May 12-16, 2003** **Barcelona, ES**

The RIPE 45 Meeting was held at the Hotel Fira Palace from May 12 - 16, 2003 in Barcelona, Spain. There were a total of 322 attendees which included representatives from the RIPE-NCC membership and the RIPE community, as well as staff members from APNIC, ARIN, LACNIC, and ICANN.

Highlights of RIPE 45 included the open discussion during the Plenary on the services of the RIPE-NCC; the proposal to split and rename the LIR Working Group into 2 separate groups, the RIPE-NCC Services Working Group and the Address Policy Working Group; and the deactivation of the Tools and NetNews Working Groups.

The RIPE-NCC webcast the entire meeting so that people who were unable to attend the meeting were still able to participate. Recordings of sessions have been archived and can be accessed at:

<http://www.ripe.net/ripe/meetings/ripe-45/webcast-archive.html>.

Further details can be found at:

<http://www.ripe.net/ripe/meetings/ripe-45/>.

### **NANOG 28** **June 1-2, 2003** **Salt Lake City, Utah, US**

The North American Network Operators' Group (NANOG) held its 28th meeting June 1-3, 2003, in Salt Lake City, Utah. NANOG conferences provide a forum for the coordination and dissemination of technical information related to large-scale (i.e., national/international) Internet backbone networking technologies and operational practices.

Tutorials began on Sunday afternoon, June 1, and included sessions on BGP, Multicast, and MPLS. The General Session ran June 2 and 3, and featured an agenda thick with security and BGP topics. IPv6 experience, a report on a "land-speed record" for data transfer, experiences of the @Home network, the remaining supply of AS numbers, and MPLS were also covered. But discussions of why and how to secure BGP were front and center.

For information and details about the topics covered during NANOG 28, please see:

<http://www.nanog.org/mtg-0306/>.

**AfriNIC Workshop  
June 2-3, 2003  
Montevideo, UY**

LACNIC hosted a workshop at its facility in Montevideo, Uruguay, for AfriNIC. The intent of the workshop was to share the details of LACNIC's experience of establishing a new Regional Internet Registry (RIR) for Latin America with the organizers of the emerging RIR for continental Africa. The workshop was attended by members of the African Internet community that are involved in the work of establishing AfriNIC and by staff members of all the Regional Internet Registries.

The workshop focused on the work completed by LACNIC over the past several years to establish a new RIR and the coordination activities related to the transition of RIR services from ARIN to LACNIC for Latin America. Day one of the workshop included discussions of the formal aspects related to the establishment of a new RIR (application to ICANN, community support, etc.), the business aspects of setting up a new organization to support the activities of a RIR, and the details of running a registration services operation. Day two of the workshop included a discussion of the engineering aspects of building a new RIR and concluded with a detailed discussion of the process of establishing a new RIR in Africa.

**ICANN  
June 22-26, 2003  
Montreal, CA**

The International Corporation for Assigned Names and Numbers (ICANN) held its meeting at Le Centre Sheraton Hotel in Montreal, Canada. A workshop concerning the operation and content of WHOIS was conducted in two 4-hour sessions. The presentations covered the many communities and constituencies that use WHOIS or provide a WHOIS service. ICANN President and CEO, Paul Twomey, presented the revised staffing plan for the ICANN staff. Significantly, the staff will be organized around a business center approach. Of significant note to the addressing community is the creation of an IANA Manager position. Action is underway to fill this position. Lastly, there was a discussion concerning the composition of the ICANN regions. Raul Echeberria, LACNIC CEO, spoke on behalf of the RIRs concerning this proposal. He read into the record of the proceedings a joint statement by the RIRs to ICANN. That statement is quoted here in its entirety.

*"Regarding <http://www.icann.org/montreal/geo-regions-topic.htm>, "ICANN Geographic Regions", we note that the geographic regions as used by ICANN are different from the RIRs' service regions (\*). We also note that while ICANN's service regions are defined for purposes of representation and may therefore be readily changed, the RIR service regions have practical impact and produce enduring service relationships which are not easy to change, even within a timeframe of several years.*

*"RIRs' service regions were established during the formation of the RIRs, in most cases prior to ICANN. We have successfully operated with the existing definitions for a significant time, and have seen no significant proposal or requirement from within our communities to change them.*

*"Therefore while there may be good reasons for ICANN to reconsider and redefine its Geographic Regions, the RIRs would not move to reflect this redefinition in our own service regions. As this may be seen as a source of confusion in future, we strongly suggest that the ICANN definitions be accompanied by a clear statement of purpose and scope, recognizing that they may not be universally adopted within the broader Internet community."*

The ICANN Board took note of this in its resolution affirming the composition of the regions, noting that the region definition did not apply to the RIR service regions.

Details of the ICANN meeting can be found at:

<http://www.icann.org/meetings>.

**North American Global IPv6 Summit  
June 24, 2003  
San Diego, California, US**

ARIN staff attended a meeting of all scheduled speakers for the 2003 North American Global IPv6 Summit to brief them on the current status of ARIN's IPv6 policies, registration procedures, statistics, and training efforts. The briefing ensured members of the North American IPv6 Task Force and all speakers for the Summit were up-to-date on current policy and registration trends, as they relate to IPv6 and the Regional Internet Registries.

More information about the North American Global IPv6 Summit is available at:

<http://www.usipv6.com/>.

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## **Continued from page 1**

Presentations from Sunday's IPv6 Mini-workshop can be found at:

[http://www.arin.net/library/minutes/ARIN\\_XI/tut.html](http://www.arin.net/library/minutes/ARIN_XI/tut.html).

Sunday night saw the return of ARIN's annual Foosball Tournament, now in its fourth year. Award winners included Shelly Langley (Qwest) and Thomas Cho (Qwest) for first place, Mo Sepehrrad (ARIN) and Scott Whipple (Cox Communications) for second place, Chad Eastman (ARIN) and Ed Pizzarello (ARIN) for third place, and the "Bringing Up the Rear" award was presented to Michael O'Neill (ARIN) and William Leibzon (Elan Communications). Thanks to everyone for making this event such a success.

Throughout the meeting, ARIN provided self-paced computer-based training in the ARIN Learning Center. Two training modules were available: "Understanding ARIN's Database and Templates" and "Querying ARIN's WHOIS." Online versions of these training modules are available on the ARIN website at:

<http://www.arin.net/library/training/>.

## **Public Policy Meeting**

The ARIN XI Public Policy Meeting was held April 7-8, 2003. Full meeting minutes and presentations from the meeting are available at:

[http://www.arin.net/library/minutes/ARIN\\_XI/ppm.html](http://www.arin.net/library/minutes/ARIN_XI/ppm.html).

## **Policy Proposal Discussions**

Summaries of the discussion of policy proposals can be found through the link above. The current status of the proposals discussed at ARIN XI is detailed in the "Policy Proposal Update" article on page 6.

## **Working Group Reports**

### **RFC 2050 Working Group**

Mark McFadden, WG Chair, provided a history of RFC 2050 and gave an update on the progress of the RFC 2050 Working Group. It was noted that the rate of progress has increased and that an inventory of the documents that need to be created to replace RFC 2050 has been published on the 2050-WG mailing list. Highlights of his

report included a status of the current document schema and the progress of the editorial teams.

Mark invited participation on the list and asked for everyone to get other people involved to ensure the building of a useful consensus.

### **IPv6 Working Group**

Thomas Narten, IPv6 Working Group Chair, provided a description of the proposed changes to ARIN's current IPv6 policy and how they have resulted from experience of implementing joint-RIR policy. He stated that the current policy has been in place for almost a year and that the changes in proposed policy are for clarification and lowering costs. Thomas noted that feedback and discussion on ARIN and RIPE mailing lists had included discussion of wording issues such as the number of customers needed and the perception that an allocation will be lost if the introduction is taking more time and customers are lost.

It was proposed that an editorial committee be formed to address this proposal and continue dialogue beyond this meeting on the global IPv6 mailing list that was initially used during discussions on the original IPv6 policies. More fundamental issues include longer prefixes for smaller ISPs that want to multi-home, the need for provider independent addresses, and the fact that the editorial committee has several issues to address per this proposal.

### **Database Implementation Working Group**

Ginny Listman, ARIN Director of Engineering and Chair of the Database Working Group, provided an introduction to the topics that would be covered. Discussion items included: Lame Delegation Status Report, RWhois Design Team Report, CRISP, ERX Status Report, Proposed WHOIS display changes, and Authentication.

## **Other discussion highlights**

### **ICANN Update**

On the first day of the Public Policy Meeting, Lyman Chapin, member of the ICANN Board of Directors, gave an update on ICANN. Many events and activities were announced, most visibly was Paul Twomey taking over as President of ICANN. Additional issues discussed were nomination

committee changes, the renewal of the contract between the U.S. Department of Commerce and ICANN, and the formation of a Standing Committee on Privacy.

Paul Twomey, President of ICANN, made a presentation on the second day. He gave an update on the ICANN Evolution and Reform Process and where he believes ICANN is headed as an organization. Lyman Chapin also spoke about what the newly reorganized ICANN will look like and what can be expected from it.

Ray Plzak, ARIN President and CEO, closed the discussion by speaking about ICANN reform from ARIN's perspective. He noted that after intense discussions, many items and issues were reaching closure. Ray ended his remarks by saying that he suspected there was some intense work ahead and invited feedback from those in attendance and the ARIN community at large.

### ARIN's Internet Resource Policy Evaluation Process

Ray Plzak and ARIN Board member and Secretary Scott Bradner provided presentations on ARIN's current Internet Resource Policy Evaluation Process and suggested changes. There were many questions and comments from the floor, and everyone was encouraged to continue to provide feedback to the Board on this issue via the Public Policy Mailing List ([ppml@arin.net](mailto:ppml@arin.net)).

### Key Signing Key Management

Johan Ihren gave a presentation on the issue of DNSSEC and the possibility of the RIRs signing keys. Discussion focused on the issues of the suitability of this for ARIN, the legal and operational impacts of the RIRs taking on this role, and what the exact method of implementation would require.

### Members Meeting Highlights

The ARIN XI Members Meeting was held April 9, 2003. Full meeting minutes and presentations from the meeting are available at:

[http://www.arin.net/library/minutes/ARIN\\_XI/mem.html](http://www.arin.net/library/minutes/ARIN_XI/mem.html).

Reports were given by the Directors of ARIN's departments, the Chair of the Advisory Council, ARIN's Chairman of the Board of Trustees, and ARIN's Treasurer.

Highlights included Alec Peterson, Advisory Council Chair, providing status reports on pending policy proposals and John Curran, Chairman of the Board of Trustees, giving a presentation on changes to ARIN's Maintenance Fee structure. ARIN Board member and Treasurer Lee Howard presented an overview of ARIN's financial position and the outlook for the future.

## WHOIS Tutorial Now Online



As part of our continuing efforts to provide education and training to the ARIN community, ARIN has provided an online version of our "Querying ARIN's

WHOIS" computer-based training (CBT) application. The application was debuted at the ARIN XI Learning Center.

This training module provides instruction for ARIN's WHOIS users in the structuring of a query to retrieve information and understanding output. Self-contained units serve a broad target audience. Novice users of ARIN's WHOIS will benefit from completing the entire program in sequential order. Frequent users of ARIN's WHOIS who wish to hone specific query skills may select applicable modules.

The tutorial can be accessed at:

[http://www.arin.net/library/training/WHOIS\\_CBT/](http://www.arin.net/library/training/WHOIS_CBT/).

The CBT is available for Windows and Macintosh users. Please see the link above for minimum system requirements.

Once you have finished the training module, please feel free to provide feedback at [training@arin.net](mailto:training@arin.net).

## Policy Proposal Update

Following discussions at the ARIN XI Public Policy Meeting and on the Public Policy Mailing List, many policy proposals are either pending action by the Board or still under discussion. The following is an update on the status of the policy proposals discussed at ARIN XI.

### Currently awaiting Board of Trustee action:

#### 2002-5 Amnesty Requests

[http://www.arin.net/policy/2002\\_5.html](http://www.arin.net/policy/2002_5.html)

Note: Awaiting Ratification

#### 2002-6 Aggregation Requests

[http://www.arin.net/policy/2002\\_6.html](http://www.arin.net/policy/2002_6.html)

Note: Awaiting Ratification

#### 2002-8 Privatizing POC Information

[http://www.arin.net/policy/2002\\_8.html](http://www.arin.net/policy/2002_8.html)

Note: Awaiting Ratification

### Currently under discussion:

#### 2003-1 Required Performance of Abuse Contact

[http://www.arin.net/policy/2003\\_1.html](http://www.arin.net/policy/2003_1.html)

#### 2003-2 Network Abuse

[http://www.arin.net/policy/2003\\_2.html](http://www.arin.net/policy/2003_2.html)

#### 2003-3 Residential Customer Privacy

[http://www.arin.net/policy/2003\\_3.html](http://www.arin.net/policy/2003_3.html)

#### 2003-4 IPv6 Policy Changes

[http://www.arin.net/policy/2003\\_4.html](http://www.arin.net/policy/2003_4.html)

#### 2003-5 RWhois Server Use Requirements

[http://www.arin.net/policy/2003\\_5.html](http://www.arin.net/policy/2003_5.html)

#### 2003-9 WHOIS Acceptable Use

[http://www.arin.net/policy/2003\\_9.html](http://www.arin.net/policy/2003_9.html)

#### 2002-2 Experimental Internet Resource Allocations

[http://www.arin.net/policy/2002\\_2.html](http://www.arin.net/policy/2002_2.html)

#### 2002-3 Micro-Assignments for Multihomed Networks

[http://www.arin.net/policy/2002\\_3.html](http://www.arin.net/policy/2002_3.html)

### Abandoned:

#### 2003-6 Micro-Assignments with Sponsorship

[http://www.arin.net/policy/2003\\_6.html](http://www.arin.net/policy/2003_6.html)

#### 2003-7 Announcement of New ARIN IPv4 Blocks

[http://www.arin.net/policy/2003\\_7.html](http://www.arin.net/policy/2003_7.html)

## 2003-8 End-User to Subscriber Member Status Change

[http://www.arin.net/policy/2003\\_8.html](http://www.arin.net/policy/2003_8.html)

## Internet Resource Policy Evaluation Process

The ARIN Board of Trustees is considering making changes to the ARIN Internet Resource Policy Evaluation Process. These changes were discussed at the ARIN XI meeting in Memphis, April 7, 2003. The presentation slides are located at:

[http://www.arin.net/policy/process\\_changes/](http://www.arin.net/policy/process_changes/).

Comments are welcome and encouraged and should be sent to the Public Policy Mailing List ([ppml@arin.net](mailto:ppml@arin.net)).

## DBWG Announcement

Based on feedback from the most recent DBWG meeting at ARIN XI, ARIN staff will make minor modifications to the way organization data is displayed in WHOIS. These changes will be released on July 16, 2003.

For organizations with RWhois servers, ARIN will append an RWhois server information field to the organization information displayed in WHOIS. The WHOIS display will place the label "ReferralServer:" and its URL value.

### Acceptable values to enter after the "ReferralServer:" label are:

```
rwhois://192.0.2.11:4321/
```

```
rwhois://rwhois.arin.net:4321/
```

```
rwhois.example.net:4321
```

```
rwhois:/whois.example.com:43/
```

### Invalid values include:

```
rwhois.arin.net
```

```
http://whois.example.net:80/
```

### New Point of Contact Requirements

To ensure that all organizations registered in ARIN's database have accurate, updated Point of Contact information, ARIN is stepping up efforts towards accomplishing this goal.

As announced at the ARIN XI Public Policy Meeting in Memphis, TN, effective May 1, 2003, all templates that are submitted to ARIN that refer to a specific ORG ID must have both an organization Administrative and an organization Technical POC associated with it. Please keep in mind that these POCs can be the same person.

The templates that are affected by this change are the Net-ISP, Net-End User, Netmod, ASN-Mod, Net-Name Change, Reallocate, and Reassign-Detailed.

Further information about Points of Contact in the ARIN database can be found in the "Understanding ARIN's Database and Templates" computer-based training module at:

[http://www.arin.net/library/training/DBTC\\_CBT/](http://www.arin.net/library/training/DBTC_CBT/).

For access to the appropriate templates, see:

<ftp://ftp.arin.net/pub/new-templates/>.

Please contact [hostmaster@arin.net](mailto:hostmaster@arin.net) with any questions you may have.

### Board of Trustees Actions

**The Board of Trustees met on April 7, 2003 and June 16, 2003. They undertook the following actions:**

- Formal confirmation of the appointment of Dale Finkelson as an Interim Member of the ARIN Advisory Council.
- Acceptance of AC's recommendation to adopt Policy Proposal 2002-8: Privatizing POC Information
- Approved a change to the bylaws clarifying the definition of an ARIN member in good standing.
- Approved a change to the bylaws detailing the rights of membership in ARIN.
- Approved a change to the bylaws to allow the Board of Trustees to determine conflicts of interest related to candidacy for elected ARIN bodies and ARIN representation to outside organizations, either elected or appointed.

The complete minutes for these meetings can be found at:

<http://www.arin.net/library/minutes/bot/>.

### Maintenance Fee Change

As of July 1, 2003, the annual maintenance fee is \$100. In cases where a single Org ID has more than one registration record in the ARIN database and is normally charged annual maintenance fees, only a single consolidated maintenance fee of \$100 will be invoiced.

This change was adopted by the Board of Trustees on January 10, 2003.

Additional information about ARIN's Maintenance Fees can be found at:

<http://www.arin.net/registration/maintfee.html>.

### Last Issue's Crossword

B	B			K	I	N	G		
A		M	A	L	L	A	R	D	
R	U	B	Y		S	T	A	X	
B				C			C		M
E	L	V	I	S		P	E	T	E
Q	U	A	N	T	U	M			N
U		E		L		L	E	E	
E		A	R	E	T	H	A		S
			T		R		N		
A	B	E		H	A	N	D	Y	

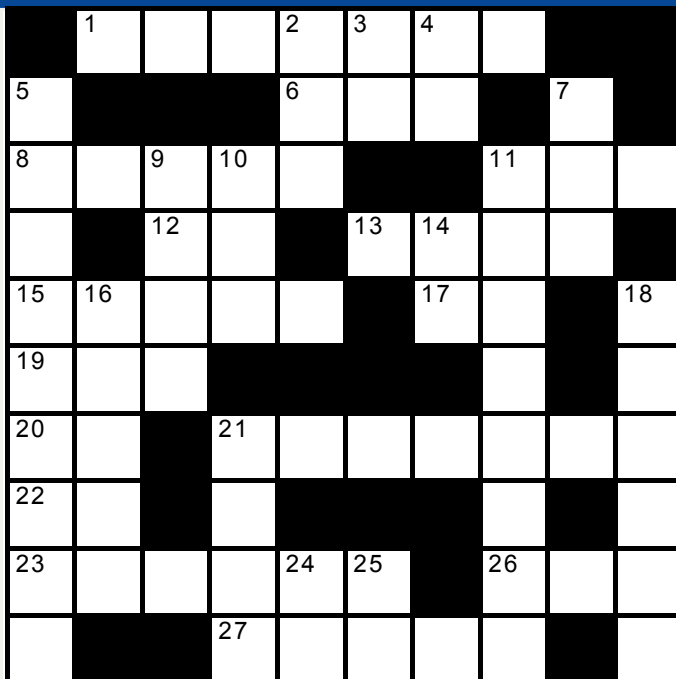
## Crossword

### Across

1. Ill. motto: "Land of \_\_\_\_\_"
6. Three letter abbr. of state where ARIN X was held
8. Jane Byrne, Chicago's first \_\_\_\_\_ mayor
11. Exclamation of Harry Caray: "Holy \_\_\_\_"
12. Country code for land of pharaohs
13. Nickname for downtown Chicago
15. Erasable Programmable Read-Only Memory
17. 47th state, abbr.
19. Spasmodic motion
20. State capitol is Lincoln, abbr.
21. Slang for fermented mix of water, malted grain and hops
22. Exchange carrier for short
23. \_\_\_\_\_ City; nickname of Chicago and name of comedy troop
26. Diagnostic for heart, abbr.
27. Meteorological epithet for Chicago; "\_\_\_\_\_ City"

### Down

2. Chicago gangster, after he was caught
3. Two letter version of 6 Across
4. Limited edition, in short
5. Bears #34, ran like honey, nickname
7. Not cola or soda, but \_\_\_\_
9. The Chicago Mercantile Exchange



10. Long \_\_\_\_ and far away
11. Home of the White Sox
14. Canadian province that shares its name with a Great Lake, abbr.
16. What Al Capone might have called a gun
18. William "The \_\_\_\_\_" Perry
21. Taliesin means "Shining \_\_\_\_\_" in Welsh; name for famous Wright estates
24. Metal used in coins since at least 235 BCE; atomic number 28, abbr.
25. Famous English actor who was one of six people to have played James Bond, initials



**ARIN Today**, a quarterly newsletter, is produced for the ARIN membership and the Internet community. Articles and contributions dealing with IP address issues and technology are welcome from all sources.

Each issue is filled with news highlights, meeting descriptions, policy updates, and information about training and other services ARIN provides its members. Technology news and interesting applications are also covered.

If you have an idea about an article you'd like to submit, or something you'd like to see, please contact the editor at [webmaster@arin.net](mailto:webmaster@arin.net).

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