

Overview: Advanced Photon Source User Program

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“Three-Way” Meeting

Argonne National Laboratory

July 31, 2013

Agenda for the Day

- Facility Overviews (9:00–11:30am)
- Publications (11:30–Noon)
- Working Lunch–General Discussion of Topics Covered in the Morning (Noon–1:00pm)
- Databases and Data Management (1:00–2:00pm)
- Scientific Access: Proposal Systems (2:00–3:30pm)
- Special Facility Access Requirements/International & Gov't. Review (3:15–4:15pm)
- User Meetings, Organizations, Workshops and Industrial Issues (4:15–5:30pm)

Reception (6:00–7:30pm)

No-host Dinner – To be determined

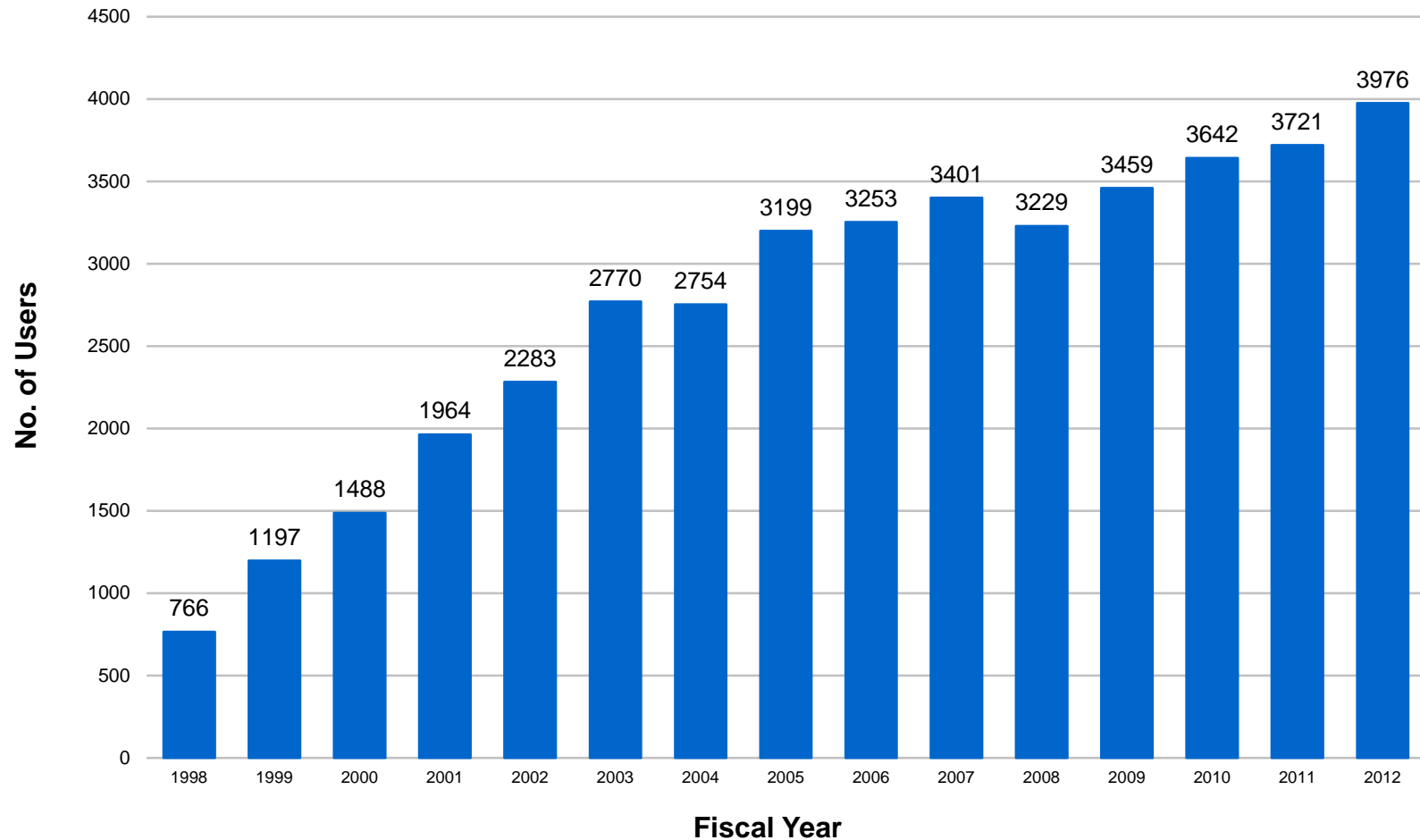


APS Key Information

- Groundbreaking: June 4, 1990
- Key operational dates:
 - First light: March 26, 1995
 - First user operations run: early 1996
- Initial configuration and subsequent changes
 - All beamlines funded, built, and operated by Collaborative Access Teams (CATs) – 20 initially
 - Transition to APS-operated beamlines began in late 2001-early 2002
 - Current (FY2013) configuration: 32 CAT beamlines, 34 APS-operated beamlines (45 ID, 21 BM)
- First partially centralized proposal system for Independent Investigators: early 2000
- Initiation of current central proposal system for General Users: October 1, 2002
- Expansion of central proposal system to include all proposals: February 2009
- Beginning of central scheduling system: May 2009

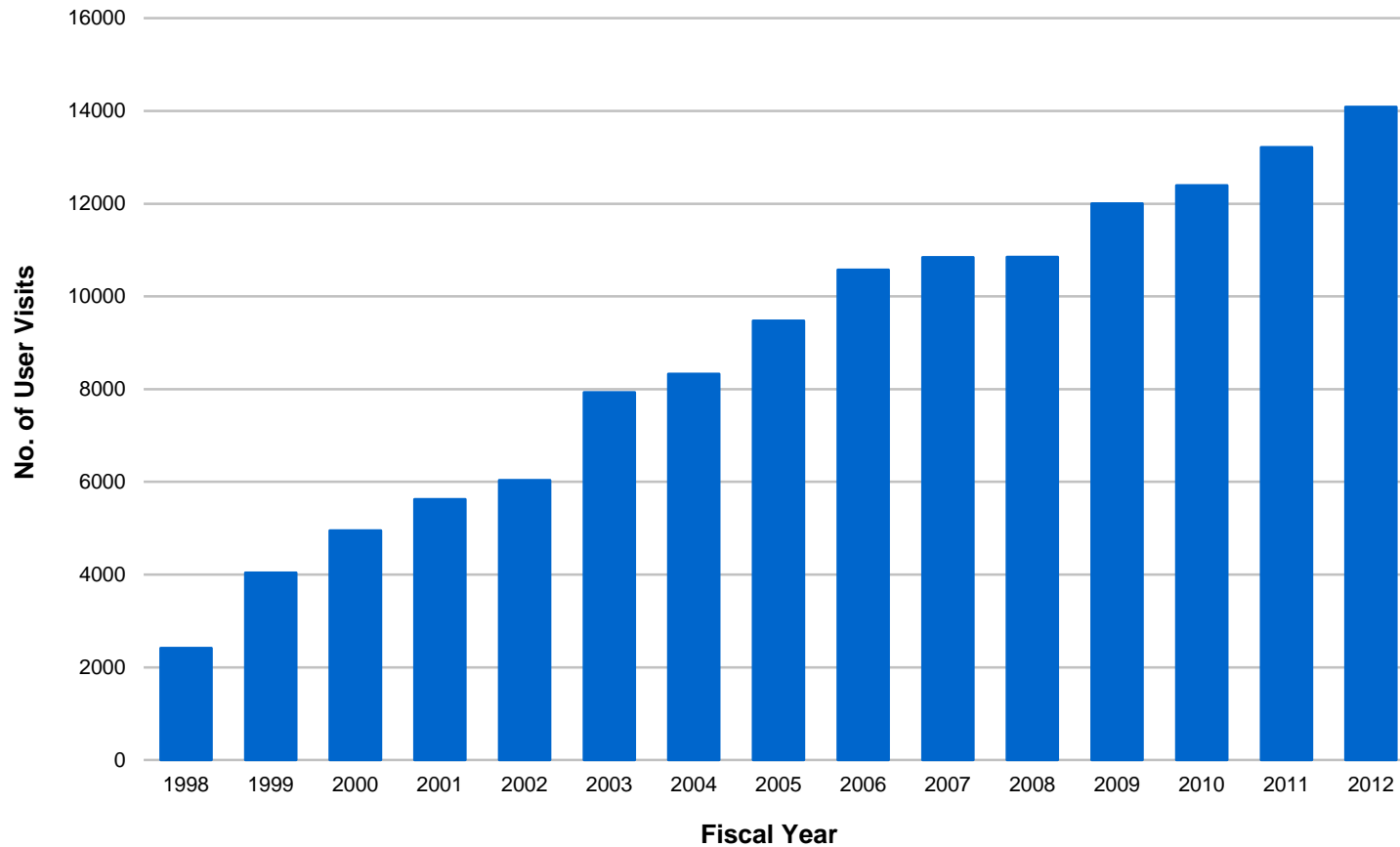
Statistics: APS Users by Fiscal Year

(Each person is counted only once/year.)



Statistics: APS User Visits by Fiscal Year

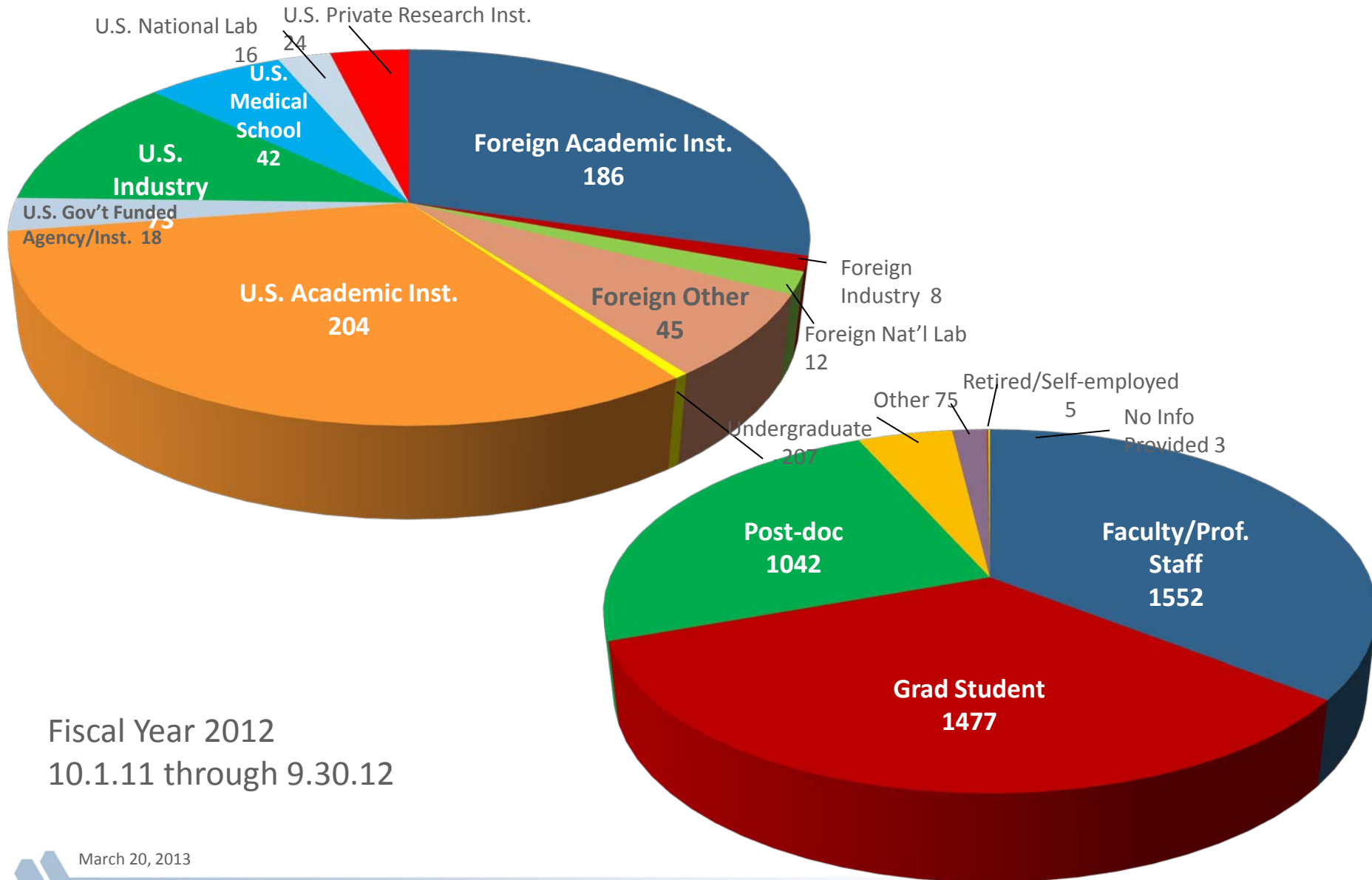
(Each visit is counted.)



1998



Statistics: APS Users by Institution and User Type

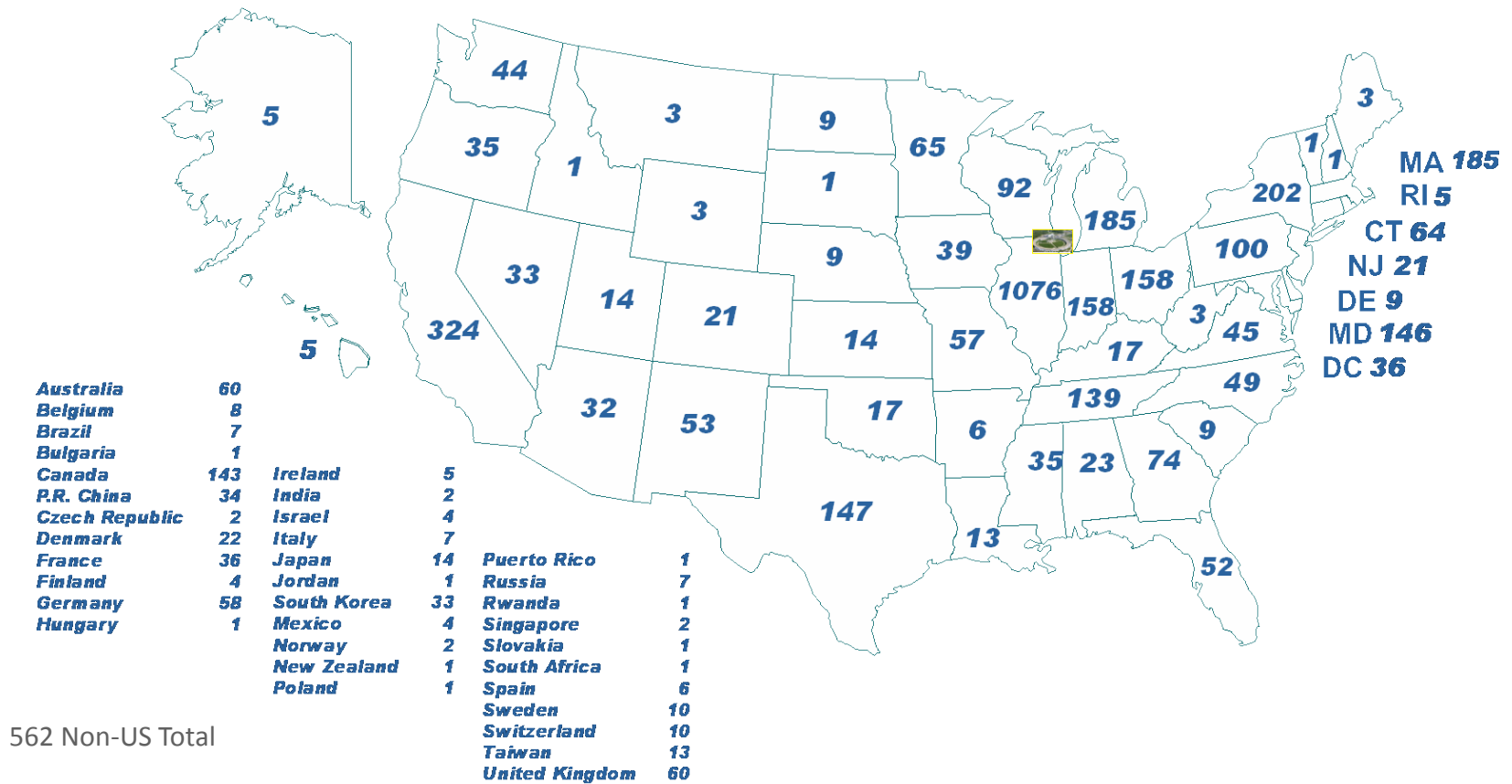


Fiscal Year 2012
10.1.11 through 9.30.12

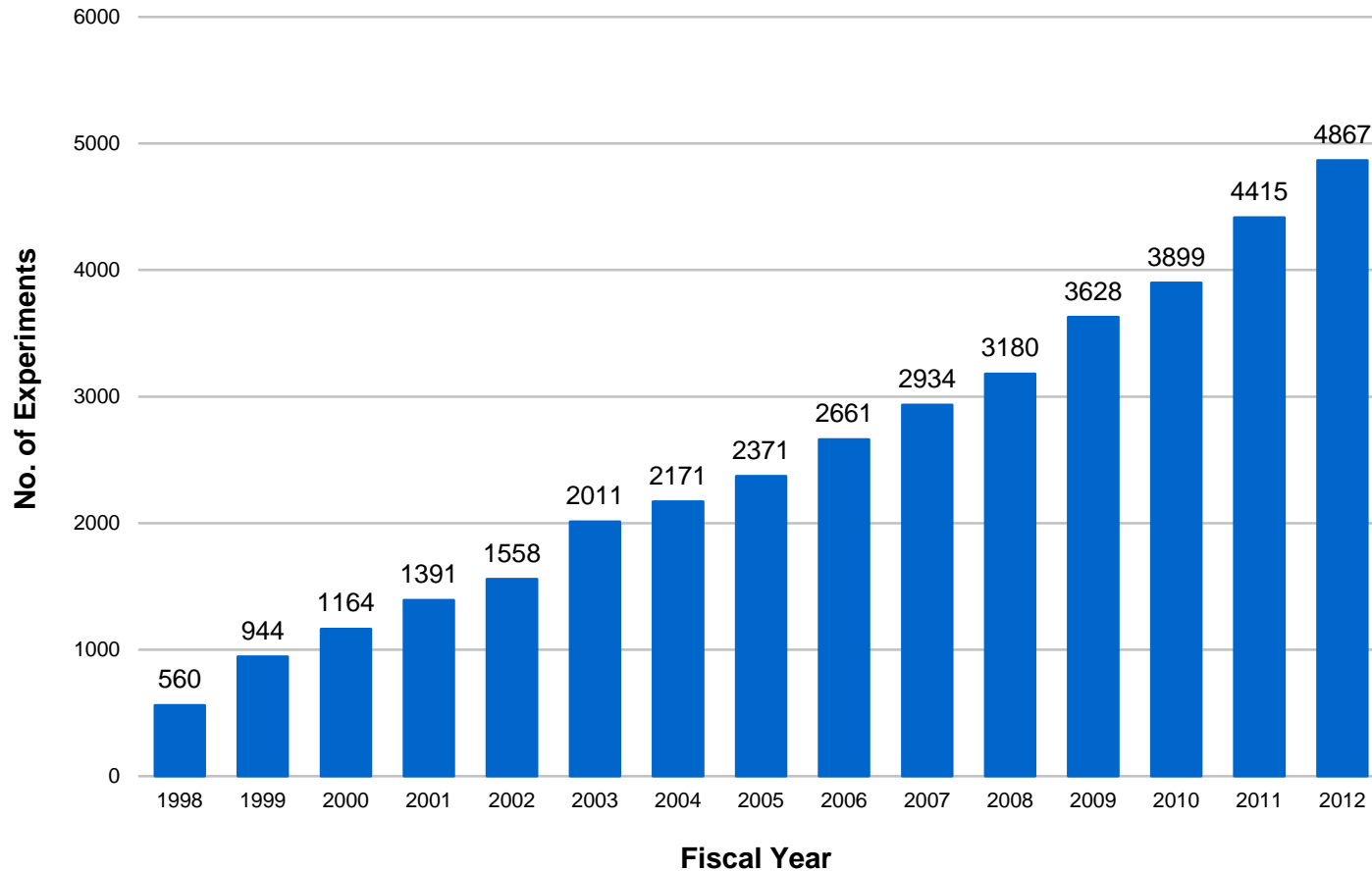
March 20, 2013



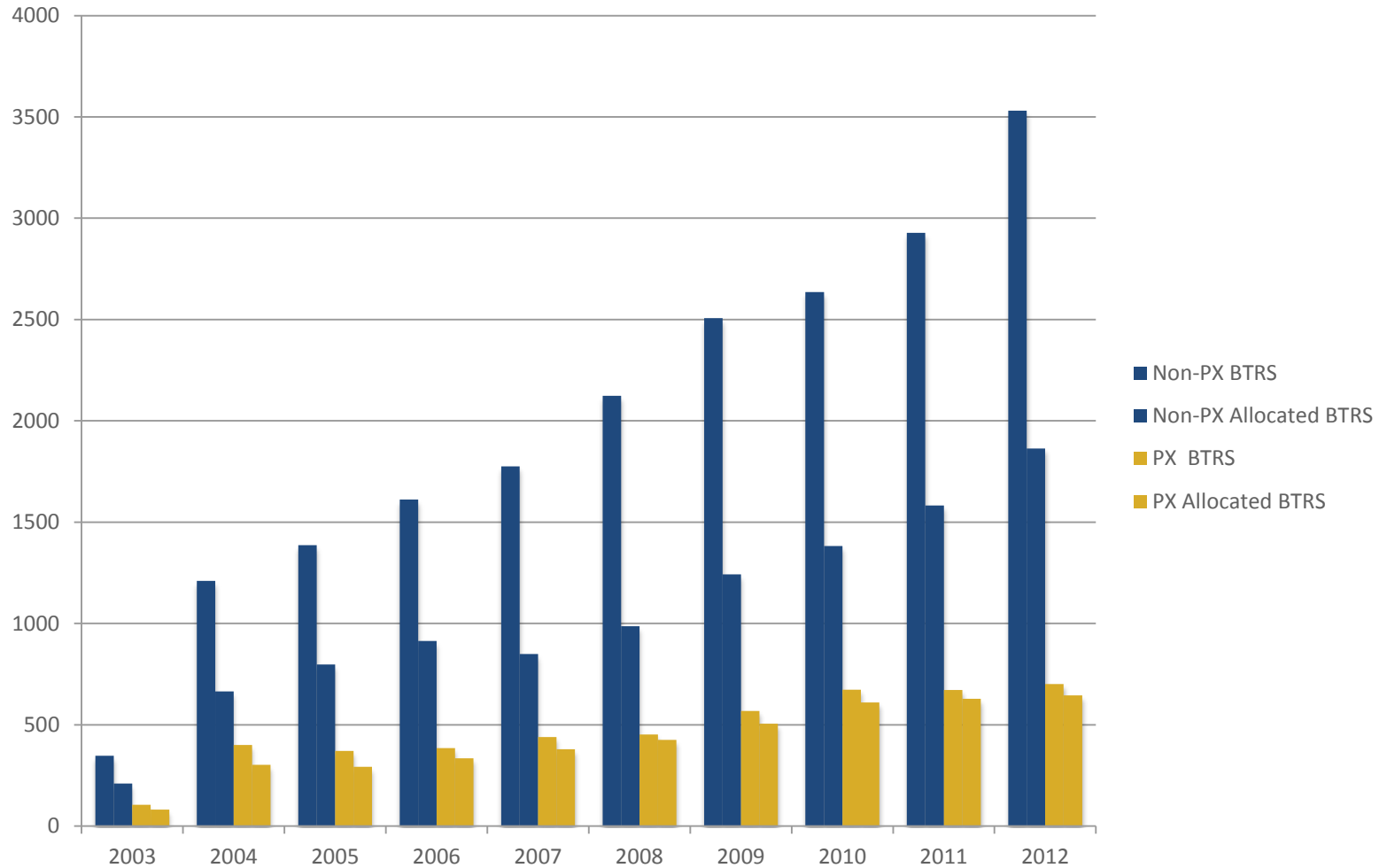
Statistics: Users by Geographical Affiliation (FY 2012)



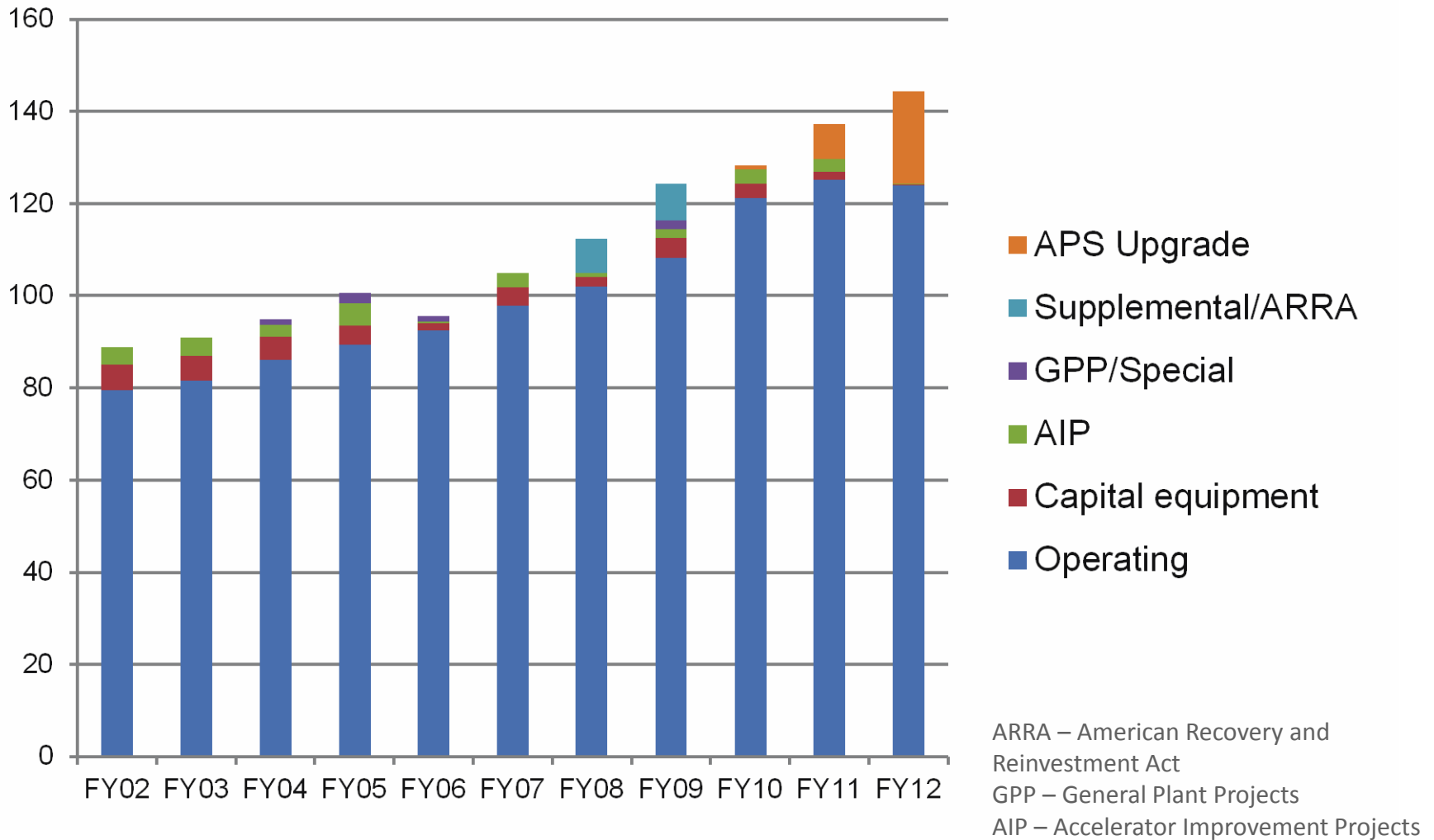
Statistics: APS Experiments by Fiscal Year



Statistics: APS Requests for Beam Time (BTRs) vs. Allocated Beam Time



APS Overview: Budget (\$M)



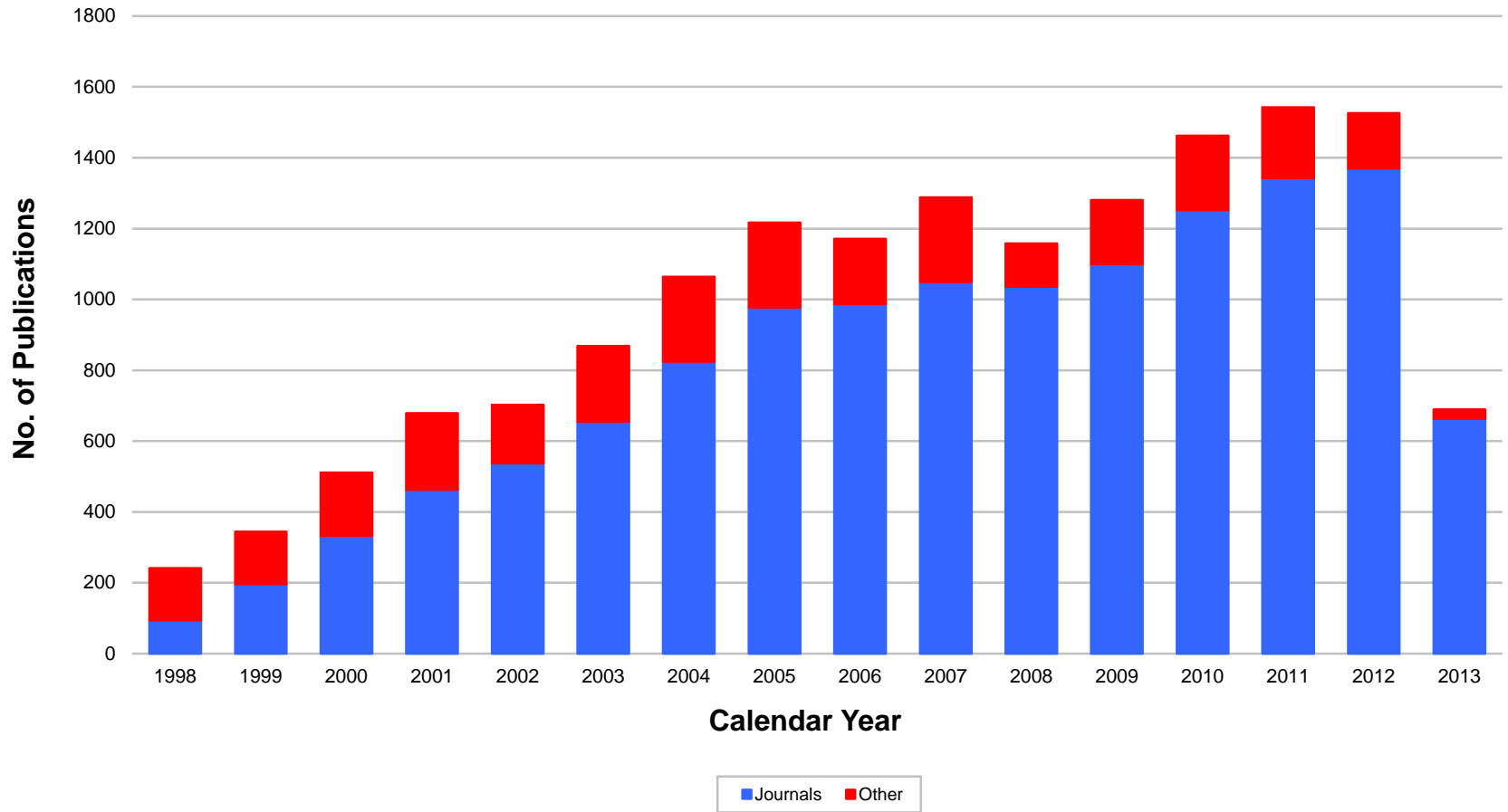
APS User Office: Staffing and Functions

- **APS User Office Staff**
(10 total – 9 permanent, 1 STA)
- **User Office Responsibilities:**
 - User registration
 - Site an scientific access (non-US citizen permissions, scientific proposal systems)
 - Training
 - User conference/workshop administrative support (Annual User Meeting + others)
 - APS Users Organization, Partner User Council
 - Support for various review committees
 - User electronic communications and user Web pages
 - User data management
 - Scientific Advisory Committee
 - User Web applications



Publications by Calendar Year (1998-2013)

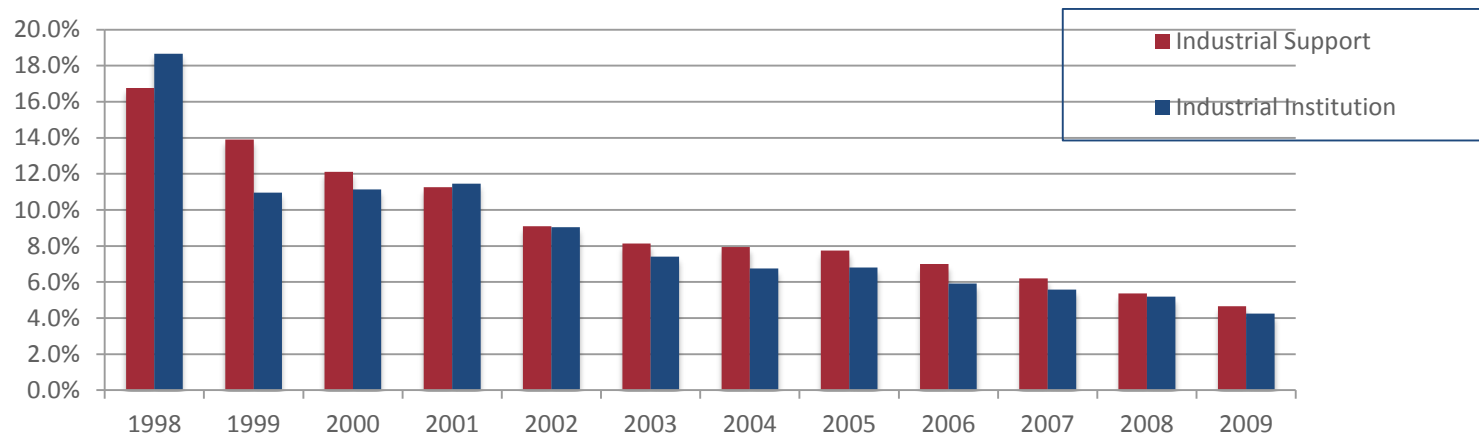
(more from Rick Fenner, APS Director's Office)



Use of the APS by industry: History (1998-2009)

Industries either built (or contributed to building) beamlines

- DND-CAT (Dow, DuPont, Northwestern)
- IMCA-CAT (12 big pharma companies)
- IMM-CAT – IBM, McGill, MIT
- MHATT-CAT – Michigan, Howard, AT&T
- LRL-CAT – Eli Lilly Research Laboratory
- UNI-CAT – UOP
- CMC-CAG – Exxon-Mobil



Industrial User Program (2010-2012)

- 8892 unique users for 2010-2012; 363 (~4% from industry)
- Industrial Users can be General Users, Partner Users, or come in for quick one-time measurements – some industrial work is proprietary; most is not
- APS recently hired Jyotsana Lal as a User Outreach Scientist to work with industry
- New Industry tab on APS Home Page
- More information on industrial interactions in Friday's session

APS Proprietary Process and Pricing



- Must have a proprietary user agreement in place to cover liability, intellectual property, and payments
 - Currently there are 110 proprietary user agreements in place
 - Must have a prefunded user account in place
- Proprietary rate for FY12 is \$361.58/hour
- Proprietary income from FY2012 was \$1,966.8K (~10% of APS operating budget)

APS Proposals, Databases, Communication, Outreach, and More...

Still to come, APS presentations about the following later today!

- Publications – Rick Fenner
- Databases/User Portals at the APS – Connie Vanni
- Scientific Access – Beam Time Access Proposal System – Bev Knott
- Special Facility Site Access Issues – Susan White-DePace
- Outreach/Communication/User Meetings – Connie Vanni