

IEEE Supports Research and Development Worldwide



Judy H Brady, Area Manager, Europe
ARBICON 2017, Saint Petersburg, Russia

- IEEE & Activities in Russia
- Changes to Patent Development In Russia
- The Library Role in Support of R & D
- Ideas to Engage End-users
- IEEE eLearning Courses
 - Stay tuned – something is free!

IEEE covers technology

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More than just electrical engineering & computer science

MACHINE LEARNING **BIG DATA**

OPTICS RENEWABLE ENERGY

SEMICONDUCTORS **SMART GRID**

IMAGING NANOTECHNOLOGY

SIGNAL PROCESSING **AEROSPACE**

COMMUNICATIONS HUMAN-CENTERED INFORMATICS

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NEXT GEN WIRELESS CIRCUITS

CLOUD COMPUTING

CYBER SECURITY ELECTROMAGNETICS

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- World's largest technical membership association with more than 430,000 members in over 160 countries
- Not for profit organization "Advancing Technology For Humanity"
- IEEE *Xplore* by the numbers:
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 - Over 3 million unique users
 - More than 8 million downloads per month



IEEE Day, St Petersburg, Russia

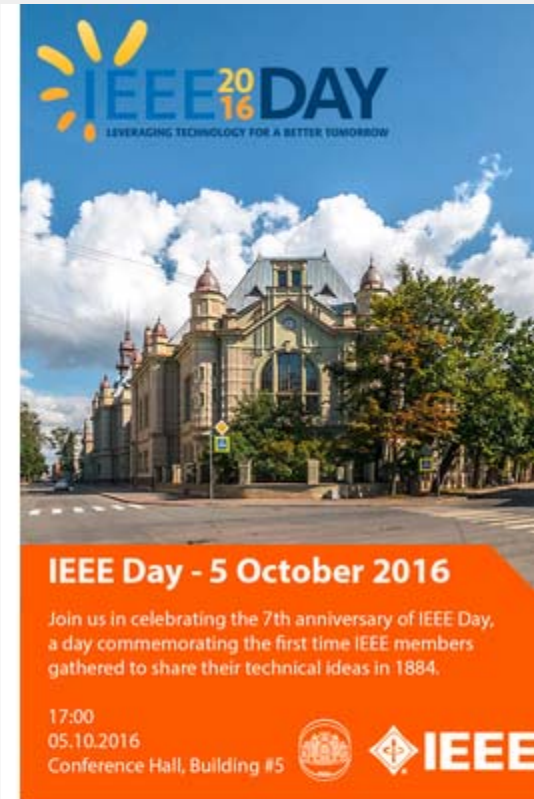
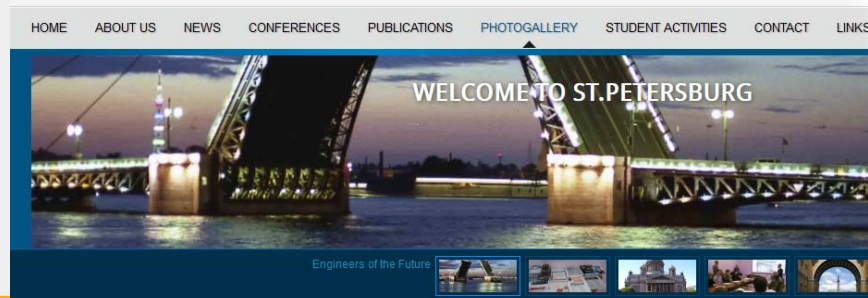
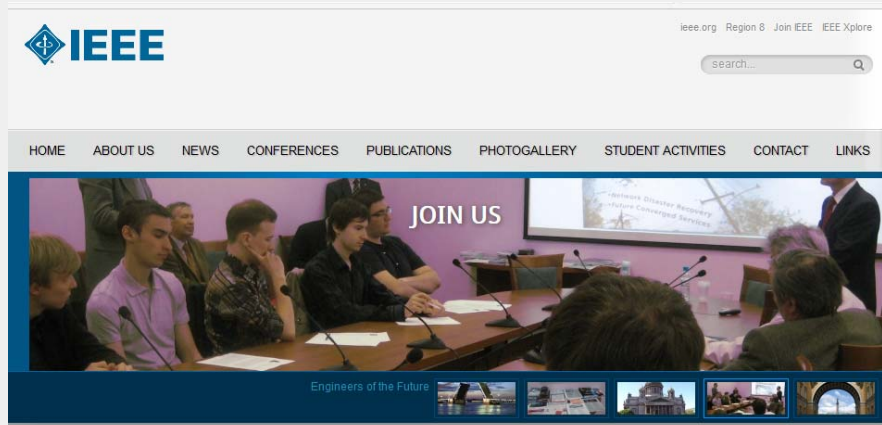


IEEE Day Contest Winner, Colombia

IEEE in Your Communities .. IEEE Russia North West Section

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Students in Electrical and Electronic Engineering representing higher education institutions, industrial companies and enterprises located in the North West Region of the Russian Federation



More than 1,000 IEEE Conferences Around the World Each Year

The screenshot shows the IEEE SPCN 2017 website. The top navigation bar includes links for Registration, Abstract submission, Program, Partner Events, and BrainHackSP Hackaton. The main content area features a 'Call for Participation' section with the following text:

Call for Participation

- Are you crazy to read someone's brain by looking at his EEG data?
- What appear as the brain data when someone has electrodes attached to her skull?
- Investigate and use your creativity to challenge the neurotechnology state-of-the-art means that are behind digital signal processing of any EEG data!

You can ask many questions or you can engage your energy in this 2-day challenge to tackle:

- What would the brain wave of a game player look like?
- How could you tell if a stroke patient recovers his memory?
- How concentrated is a student in the classroom learning?
- How reliable are the electrode measurements?
- How do you read, normalize and correlate the EEG data?
- How sensitive are the EEG data regarding time, space, age, gender, and culture/education factors?
- What can you infer from static or dynamic brain signal images?
- How can one make the brain data universally accessible? or can the brain data be universally applicable?
- What are the essential attributes that might be overlooked in these datasets?

Terabytes of brain EEG data are available through open source, collected from tests associated with human cognitive capability, stroke patient recovery, class learning ability, and other social environments, over a wide range of demographics. Some also play with stimulus such as audio, music, video, lights and digital games.

The IEEE Brain Initiative sponsors 4 competitions world-wide in 2017 to explore various brain EEG datasets. The first Challenge will start from St. Petersburg, as part of the SPCN 2017 program.

Awards and Prestige for Presentation at the SPCN 2017 will be bestowed to the top winners in this Challenge.

Activate Windows
Go to Settings to activate Windows.

18 Upcoming IEEE Conferences in Russia.

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- 2017 Days on Diffraction (DD)
- 2017 Radiation and Scattering of Electromagnetic Waves (RSEMW)
- 2017 18th Intl. Conference of Young Specialists on Micro/Nanotechnologies and Electron Devices (EDM)
- 2017 Systems of Signal Synchronization, Generating and Processing in Telecommunications (SINKHROINFO)
- 2017 11th Intl. Workshop on the Electromagnetic Compatibility of Integrated Circuits (EMCCompo)
- 2017 Intl. Multi-Conference on Engineering, Computer and Information Sciences (SIBIRCON)
- 2017 IEEE 11th Intl. Conference on Application of Information and Communication Technologies (AICT)
- 2017 Intl. Conference "Quality Management, Transport and Information Security, Information Technologies" (IT&QM&IS)
- 2017 Second Russia and Pacific Conference on Computer Technology and Applications (RPC)
- 2017 Tenth Intl. Conference "Management of Large-Scale System Development" (MLSD)
- 2017 Fourth Intl. Conference on Computer Technology in Russia and in the Former Soviet Union (SORUCOM)
- 2017 Young Researchers in Vacuum Micro/Nano Electronics (VMNE-YR)
- 2017 2nd Intl. Ural Conference on Measurements (UralCon)
- 2017 IEEE II International Conference on Control in Technical Systems (CTS)
- 2017 Dynamics of Systems, Mechanisms and Machines (Dynamics)
- 2018 IEEE Industrial Cyber-Physical Systems (ICPS)
- 2018 25th Saint Petersburg Intl. Conference on Integrated Navigation Systems (ICINS)
- 2018 Global Fluid Power Society PhD Symposium (GFPS)



2016 Winners Marko Bizjak of Slovenia ,
Serban Mihalache of Romania, Laszlo
Pinter of Hungary , A.J. van den Biggelaar
of the Netherlands and Stefan Wunsch of
Germany

Your students are welcome
to participate!

IEEE R8 50th Student Paper Contest

- * Judged by an international R8 jury
- * Students submitting the five chosen papers will have an oral presentation at an IEEE R8 conferences. 2017 in Ohrid, Macedonia.
- * Travel and accommodation funded by IEEE.
- * Prizes:

- 1st US\$800
- 2nd US\$500
- 3rd US\$200 respectively.

The student branch of the student who wins first prize also gets as an award the Region 8 "Dick Poortvielt Award" of US\$250.

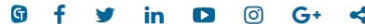
IEEEExtreme 24-Hour Programming Competition

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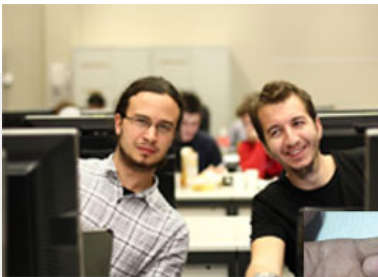
- [IEEEExtreme Facebook](#)
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IEEEExtreme is a global challenge in which teams of IEEE Student members—advised and proctored by an IEEE member, and often supported by an IEEE Student Branch—compete in a 24-hour time span against each other to solve a set of programming problems.

Registration for IEEEExtreme 10.0 has been extended through 17 October 2016 00:00:00 UTC. The competition will begin on 22 October 2016 00:00:00 UTC — save the date.

IEEEExtreme 10.0 Competition Information

- [Rules \(PDF, 778 KB\)](#)
- [Eligibility](#)
- [Prizes](#)
- [Volunteers and Judges](#)
- [Sponsors](#)
- [Promotion](#)
- [Frequently Asked Questions](#)
- [Press Kit \(PDF, 686 KB\)](#)
- [Student and Proctor Guide \(PDF, 778 KB\)](#)
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Your students are welcome to participate!

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Prizes

- 1st - Team trip with expenses-paid to an IEEE conference of their choice, anywhere around the world. Maximum value \$10,000.
- 2nd - Series 2 Apple Watch for each team member
- 3rd - Series 1 Apple Watch for each team member
- 4th - Bluetooth speaker
- Members of the top 100 teams receive an IEEEExtreme 10.0 gift bundle, including a reserved IEEEExtreme "Top Coder" t-shirt.



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IEEE publishes:

17 of the top 20 journals in Electrical and Electronic Engineering

14 of the top 15 journals in Telecommunications

3 of the top 5 journals in Computer Science, Hardware & Architecture

3 of the top 5 journals in Computer Science, Cybernetics

3 of the top 5 journals in Automation & Control Systems

3 of the top 5 journals in Artificial Intelligence

2 of the top 5 journals in Imaging Science & Photographic Technology

The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals.

Based on the 2015 study released June 2016

More info: www.ieee.org/citations

- Access to IEEE content helps increase boost the scholarly productivity of an institution and authorship overall
- In 2007, there were **14,979** articles in IEEE *Xplore* by authors from Russia
- In 2017, there were **34,186** articles by authors from Russia
- In the period from 2007–2017 there was a **128%** increase in the number of articles published by authors from Russia

*Results based on author affiliation search of Russia in IEEE *Xplore* ending in June 2007 and June 2017.

Terms

- Internet of Things
- Peak to Average Power Ration OFDM
- Antenna
- Data Mining
- Blind Source Neural Network
- Network
- Polar Codes
- PAPR OFDM
- Prediction Control Buck
- Cooperative
- Cytogenics
- Image Processing

People, Events, Publications

- Anikin
- IOFFE
- Lesnikov
- ICIE (Int'l Conference on Industrial Engineering)
- ANIMMA (Int'l Conference on Advancements in Nuclear Instrumentation Measurement Methods and Applications)
- IEEE Transactions on Magnetics
- Alhelou
- Shishlov, A

IEEE is the most frequently referenced publisher in patent literature

More than **30%** of sci-tech literature citations by the top 40 patenting organizations are to IEEE

This patent has
18 references to IEEE

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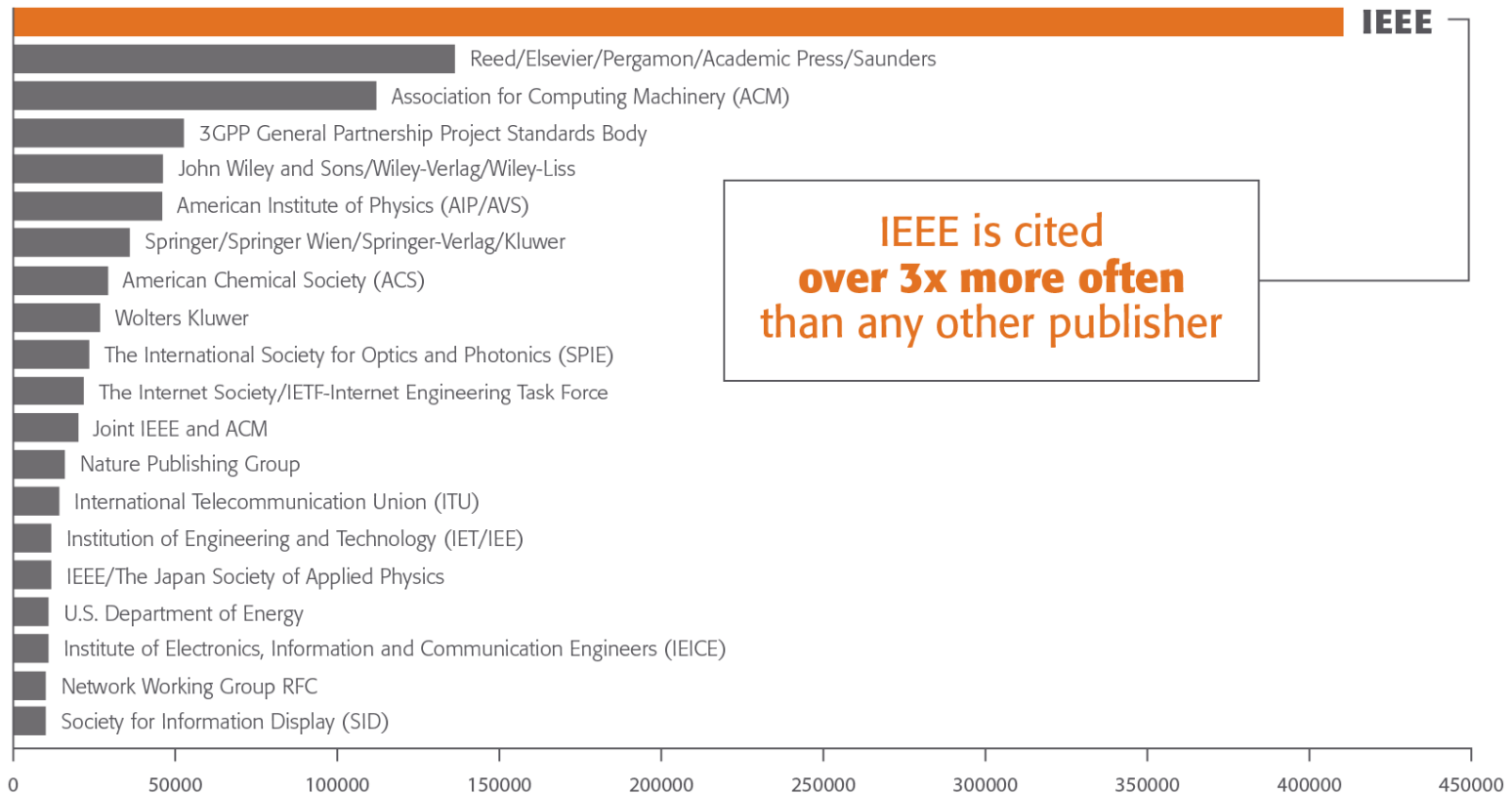
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Studies have shown that IEEE publications are critical to the patent process:
IEEE is cited in patents three times more often than any other publisher.





U.S. granted patents issued from 1997-2016 in key technology categories where the inventor country is **Russia**

- Patents Referencing IEEE: **900+**
- References to IEEE: **3,700+**

Key Technology Companies	Percentage of References to IEEE when Inventor country is Russia
Broadcom	24%
Intel Corporation	19%
Samsung Electronics	4%

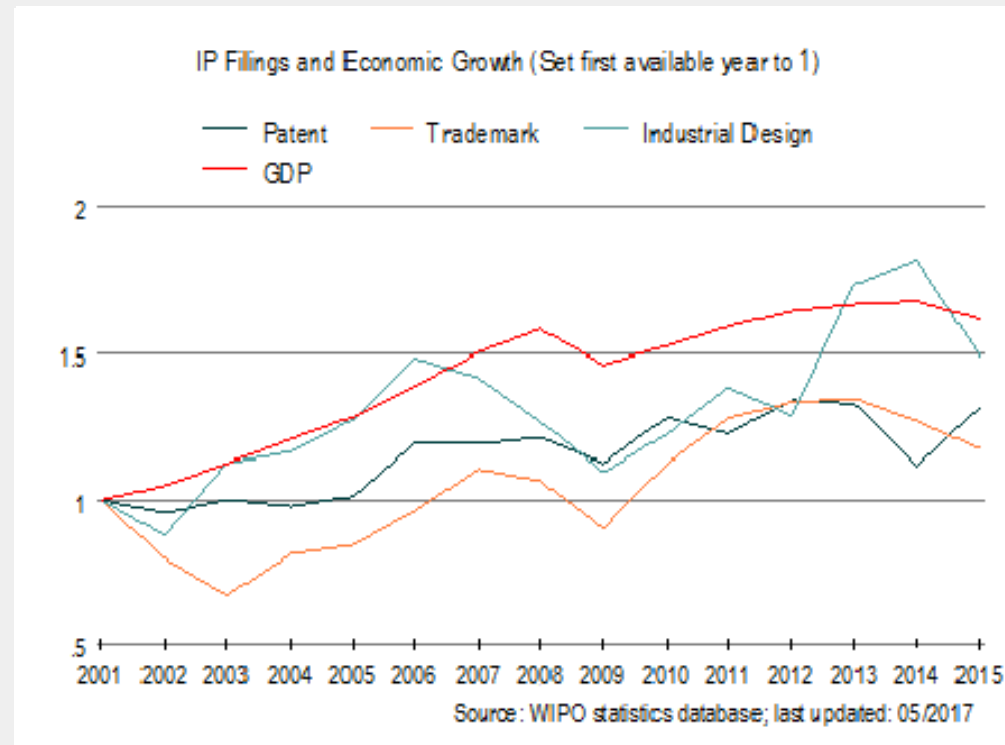
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- **Russian technologists have pioneered technologies and inventions only to see them commercialized by others.** Russian scientists have been responsible for some of the most important scientific advances of the 20th century
 - invented lasers,
 - did pioneering work on computers,
 - and even came up with the idea of fracking—all of which were later developed and commercialized in other nations.
- In the 1950-60s Russians, Alexander Prokhorov and Nikolai Basov and American Charles Townes received the Nobel prize for the invention of lasers. Townes patented his laser technology and subsequently sold it to a commercial enterprises. There was not a commercialization culture of patent systems in Russia to support research commercialization.
- Vladimir Putin declared that it was **imperative that the country break its “critical dependence on foreign technology.** We must diversify our economy and we will do that.” (December 2015 State of the Union). Skolkovo is one example.

- **The EPO and Russia's Federal Service for Intellectual Property (Rospatent) have launched a pilot program to accelerate treatment of patent applications in both regions.**
- “We're pleased to be able to launch this program with Rospatent,” said EPO President Benoît Battistelli. “The fast-track treatment will enable companies and inventors from Europe and Russia to obtain patents more quickly and efficiently, boosting business and innovation in both our regions.”
- In January 2016 Rospatent started using the Cooperative Patent Classification (CPC) – the internationally-compatible classification system for patent documents now used by more than 25 patent offices around the world.
- EPO & Rospatent to **cooperate on** :
 - **quality issues,**
 - **technical harmonization**
 - **preparation of examination guidelines**
 - **sharing patent data,** to improve access to patent information for both patent offices and users of the patent system

Russian Federation

Ongoing political and economic difficulties in Russia were reflected in a dip in patent filings over the last year. Despite this stagnation, spirits are generally high: the consensus is that **patent rights are being considered more seriously than before**. As evidence of this, the specialised IP Court – which was established in 2013 – has lately been handling more patent cases, including disputes in which the financial stakes are noticeably higher.



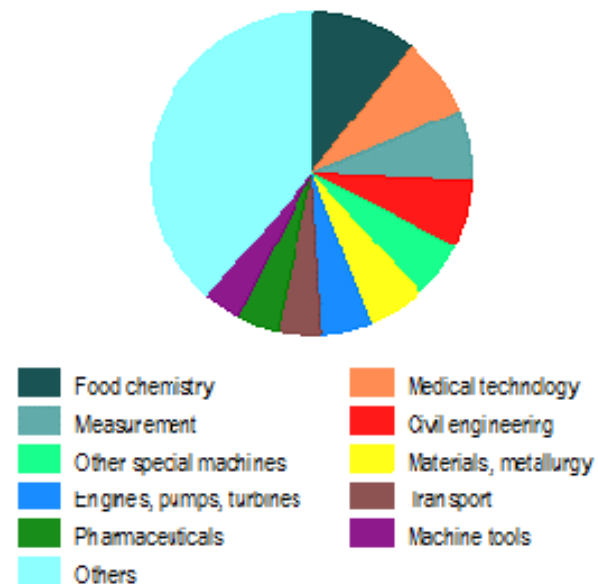
<http://www.iam-media.com/patent1000/rankings/Detail.aspx?g=bd202ea9-e37b-47c8-a51f-6245fa7ded3f>

http://www.wipo.int/ipstats/en/statistics/country_profile/profile.jsp?code=RU

Russian Federation

...[T]he procedures for filing patent applications have been streamlined: the specific details and timeframes of the patent-related amendments to Part IV of the Civil Code were clarified when a raft of new rules and regulation came into force in late 2016. Perhaps the most significant change is that 30-day prior warning letters have now become mandatory before a patent owner can file a claim with the court.

Patent Applications by Top Fields of Technology (2001 - 2015)



Source: WIPO statistics database; last updated: 05/2017

<http://www.iam-media.com/patent1000/rankings/Detail.aspx?g=bd202ea9-e37b-47c8-a51f-6245fa7ded3f>

http://www.wipo.int/ipstats/en/statistics/country_profile/profile.jsp?code=RU

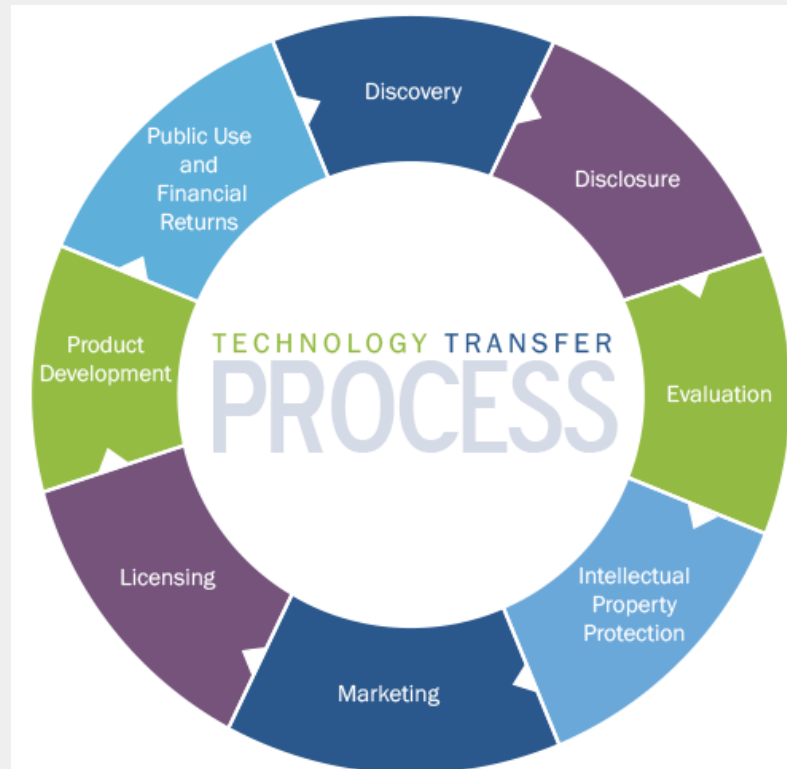
2015 Patent Applications vs. Patent Grants in Key Countries

Country	# of Patent Applications (Resident)	# of Patent Grants (Resident)	% of applications granted
UK	19,904	4,934	25%
China	968,252	263,436	27%
Germany	72,217	24,530	34%
Netherlands	9,299	3,164	35%
United States	288,335	140,969	49%
France	25,085	16,468	66%
Russia	29,567	22,753	78%

2015 data per http://www.wipo.int/ipstats/en/statistics/country_profile/

What is the library's role?

- Your library collections are necessary for technological advancement
- Engage end users – even when they say they don't need help. But how?



Example of Tech Transfer Process from fredhutch.org

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What kind of events are the most successful?

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- Publishing and career-focused workshops
- Networking events
- Research event participation
- Conference collaboration
- And, of course, celebrations and fun stuff!

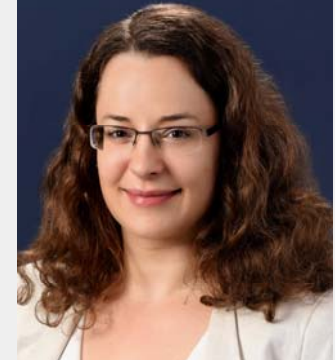
IEEE Training and Author Workshops in 2017

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Eszter Lukács, IEEE Client Services Manager and
Andrei Sakalou, EBSCO and Tatiana Kalinina

- 11 onsite trainings at different institutions in Tomsk, Novosibirsk, Nizhny Novgorod, Kazan, Moscow
- 4 online seminars for Russian end-users and librarians

Number of attendees: 330



Most successful activities in sciences are authorship events

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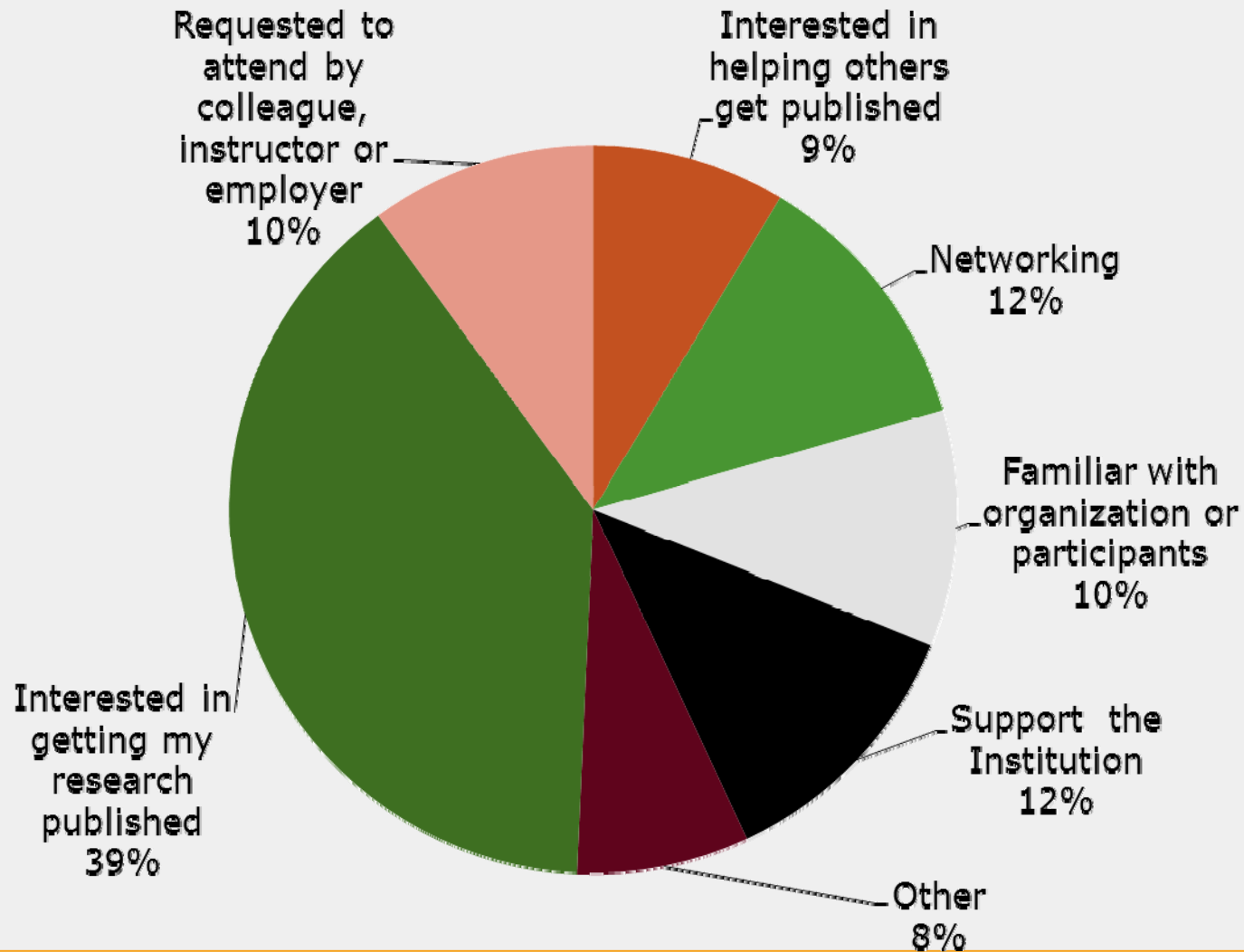
Make it about “them” – authors, inventors, award winners...



Waseda University, Tokyo

Workshops also took place in India, China, Europe and Brazil

Why Did They Attend?



WHAT ELSE WORKS??

The Library as the Innovation Hub

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Poster Session June 2017 at ASEE, Phoenix, AZ USA, by IEEE Client Service Managers Team

Patents & Entrepreneurship Workshop
Position your University's Resources as the Innovation Hub

- Promote library services around patenting and innovation
- Increase visibility of the library
- Raise awareness of library databases and resources
- Build relationships with other departments (Technology Transfer Office, etc.)
- Reach a broader audience and new constituents
- Offer value-added programming beyond traditional database training

Partner with IEEE to host an entrepreneurship workshop on your campus.
It's easy — the IEEE CSM team helps you coordinate every step.

Contact an IEEE Client Services Manager at training@ieee.org.

Invite a young entrepreneur and/or alumni to attend.

Partner with other campus resources—business school, law school, Technology Transfer Office, and student groups.

Showcase campus resources, IEEE Xplore, and research and patent tools during the workshop.

Stimulate discussion through exercise ideas and an interactive Q&A.

"I learned about courses related to entrepreneurship that I did not know before!"
—Workshop attendee

For more information on IEEE workshops that highlight and expand your library's services, contact training@ieee.org

The IEEE CSM team has the sample templates you'll need to host a workshop, including invitation flyers and evaluation forms.

IEEE
Advancing Technology for Humanity

- IEEE CSMs can help you with events, librarian training, tools and techniques to make your library team a key resource in technology development
- Contact Eszter Lukacs for help at e.lukacs@ieee.org



- Two competitions- over 1500 participations in China
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- **Content: “FUN!”**
All questions are extracted from interesting articles of IEEE Spectrum and related magazines
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 - › Online promotion via IEEE social media and website
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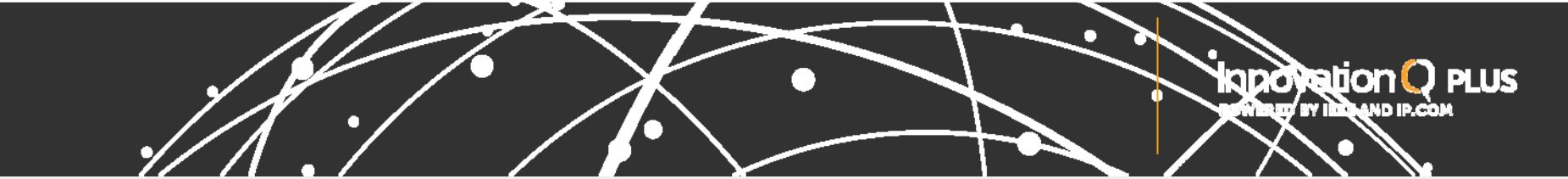
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