1. Chapter Officers:

<table>
<thead>
<tr>
<th>Function</th>
<th>Name</th>
<th>e-mail</th>
<th>SPIE ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Aleksandr Zharkov</td>
<td><a href="mailto:zharkovd@bk.ru">zharkovd@bk.ru</a></td>
<td>3686506</td>
</tr>
<tr>
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<tr>
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<td>Anton Bourdine</td>
<td><a href="mailto:bourdine@yandex.ru">bourdine@yandex.ru</a></td>
<td></td>
</tr>
</tbody>
</table>

2. Current Student Chapter Member Roster:

1. Aleksandr Zharkov
2. Anastasiya Danilova
3. Anastasia Kafarova
4. Vadim Khorkush
5. Yurii Lishaev
6. Alexei Pape
7. Stanislav Pashin
8. Maxim Pominov
9. Nikita Sevruk
10. Alina Sheremeteva

3. Chapter activities:

- **28.09.2015** "Welcome Day" workshop&party: Chapter members presented their scientific projects for the first and second year students during "workshop" part, and recruited them for research teams during "party" part

- **14.10.2015** members of Chapter Alexander Zharkov and Pominov Maxim participated in the competition of innovative projects "UMNIK" organized by Foundation for Assistance to Small Innovative Enterprises (FASIE, Samara Region)

- **29.10.15** master-class "Fusion Splicing of Optical fibers" for the first year students of PSUTI.

- **14.11.15** Chapter took part in the V Russian Festival of Science 0+, where we introduced to children of various ages optical phenomena by using Light Blox kits and Laser Khet Game.

Chapter organized workshop "Microwaves photonics combines two worlds"; two SPIE visiting lectures – specialists in radio-photonics – took part in the workshop:

1) Ph.D., prof. Oleg Gennadievich Morozov, (KNRTU-KAI named after A.N. Tupolev, Kazan) with a lecture: "Microwave photonics interrogation of complexed fiber optic sensors".

2) Ph.D., prof. Albert Sultanov Hanovich (USATU, Ufa) with a lecture: "Infocommunication technique of optical and radio band signal processing".

The seminar was attended by representatives of KNRTU and USATU, teachers of the department LSITS PSUTI, members of student chapter SPIE PSUTI, masters and students of our university. In the second part of the workshop a videoconference with Arkady Shipulin (Team Leader School Photonics, Center Ultra Optics, Friedrich Schiller University, Jena; Technical University of Darmstadt, Germany) was organized. Videoconference was realized in the form of open discussion concerned with internship programs for masters between KNRTU (Kazan) - USATU (Ufa) - PSUTI (Samara) - Technical University of Darmstadt, as well as participation in jointed RFBR and RSF grants.

Chapter participated in exhibition-forum "Education. Science. Business" (Samara, exhibition center "Expo-Volga") with master-classes concerned with optical fiber fusion splicing technique; presentation of Laser Khet Game and playing with visitors; demonstration of optical phenomena based on Laser Blox kit.

Chapter participated in the Annual XXIII Russian Scientific Conference of PSUTI Professor Staff, Scientists and Post-Graduate Students.

Opening "PSUTI Laser Chess Club" based on Laser Khet Game club, and on February 29th the first Club meeting was organized.

President of PSUTI Chapter Zharkov Alexander made a lecture for school students "Photonics is simple and fun!"; at the second children played Laser Khet Game.

Master classes in Samara Lyceum of Information Technologies during the International full-time-remote Festival "Computer Land":

1) Theoretical and practical introduction to optical fibers and methods for optical fiber fusion splicing and termination;

2) Laser Khet Game tournament (winner was awarded by memorable prize from PSUTI and SPIE Student Chapter);

3) Presentation of PSUTI, department and SPIE Student Chapter activity.

Chapter took part in organization of "PSUTI Open Day" with master-classes and recruitment actions.
– 07-08.04.16 Chapter participated in the III International Scientific Conference “Applied Electrodynamics, Photonics and Live Systems”, Kazan, KNRTU-KAI in SPIE Student Chapter Session help to KNRTU-KAI Chapter to organize Laser Khet Game tournament between PSUTI and KNRTU-KAI students

– 18-19.04.16 Innovative Project of Chapter Member Stanislav Pashin and Vadim Khorkush "System for estimation of optical fiber optic connection parameters based on ferrule analysis" was selected for the semi-final and presented in the final session of Russian Start-Up Tour-2016 (Tolyatti, organized by Skolkovo); the project was warded by 3d place in the track "Information Technologies"

– 24.05.16 PSUTI Laser Khet Game tournament

– 12.05.2016 Anastasia Kafarova and Nikita Sevruk visited awarding ceremony as winners of Young Scientist Innovation Project Awards "New Generation", organized by International Telecommunication Academy, Moscow

Grants and Awards of Chapter members:

1. Aleksandr Zharkov: finalist of the competition "Umnik" organized by Foundation for Assistance to Small Innovative Enterprises (organized by FASIE, Samara Region, Samara)

2. Maxim Pominov: finalist of the competition "Umnik" organized by Foundation for Assistance to Small Innovative Enterprises (organized by FASIE, Samara Region, Samara)

3. Maxim Pominov: finalist of the competition "5 contest of business ideas" (Samara Government, Samara)

4. Stanislav Pashin: III place in "Russian Start Up Tour – 2016", track "Information Technologies" (organized by Skolkovo, Samara Region, Tolyatti)


6. Anastasia Kafarova: III place in Young Scientist Innovation Project Awards "New Generation", track "Researches", organized by International Telecommunication Academy (Moscow)

Details of planned activities for the future:

– Recruitment activity: involving students from other PSUTI departments; "Welcome Day" workshop& party

– Participation in the conferences and workshops concerned with Optics and Photonics for young scientists

– Development of relations with SPIE Chapters from Russia and other countries;

– Promoting and popularization of Optics and Photonics in schools;

– Organization Laser Khet Game tournaments;

– Development new and working on started Scientific and Innovative Projects;

– Participation in PSUTI Student Activity Days;
– XVI Annual International Conference “Optical Technologies for telecommunications 2015”, SPIE Student Chapter Session;


– Master-classes during Samara Region inter-university annual exhibitions ("Science Festival 0+", "Education. Science. Business" etc.)

Financial Information

Starting balance (June 2015) – 0 USD

Funds Raised September - December 2015:

+ 700 USD  October 2015, SPIE Student Chapter Activity Grant
+ 740 USD  December 2015, SPIE Visiting Lecturer Program
+ 670 USD  September - December 2015, PSUTI financial support

Total:  +2110 USD

Funds Expended September - December 2015:

– 150 USD  Welcome Party and Recruitment Actions (food and soft drinks)
– 50 USD  Design and printing flag with PSUTI Chapter logo
– 150 USD  Order of the Laser Game: Khet 2.0 with Bonus Eye of Horus Beam Splitter Expansion: 3 packs, including shipment to Russia

8 SPIE PSUTI Members attending

125 USD per person, including:
- return ticket Samara-Ufa-Samara (train) 70 USD
- accommodation, 3 nights – 40 USD
- friendly dinner with members of SPIE Kazan National Research Technical Univ. Chapter and students of Ufa State University – 15 USD
– 20 USD  Printing stickers with Chapter logo
– 740 USD  Workshop “Microwaves photonics combines two worlds”, Samara, PSUTI, 08 December, 2015

2 visiting lecturers:
– lodging: 136 USD
– meals: 501 USD
– airfare/train/car: 103 USD

Total: – 2110 USD

Funds Raised January – June 2016:

+ 700 USD  March 2016, SPIE Student Chapter Activity Grant
January - June 2016, PSUTI financial support

total: + 1744 USD

Funds Expended January – June 2016:

– 150 USD  Recruitment Actions (food and soft drinks)
– 150 USD  Laser Khet Game contest (awards, food and soft drinks)

8 SPIE PSUTI Members attending, 6...9 April 2016

140 USD per person, including:
– return ticket Samara-Kazan-Samara (bus) – 30 USD
– accommodation, 3 nights – 50 USD
– food and beverage – 60 USD

– 70 USD  Russian StartUp Tour – 2016, Tolyatti, 18...19 April 2016

1 SPIE PSUTI Member attending, 18...19 April 2016

– car – 10 USD
– accommodation – 40 USD
– meal – 20 USD

– 254 USD  Young Scientist Innovation Project Awards, organized by International Telecommunication Academy, awarding ceremony, Moscow, 12 May, 2016

2 SPIE PSUTI Member attending, 12 May 2016

127 USD per person including:
– return ticket Samara-Moscow-Samara (train) – 107 USD
– meal – 20 USD

total: – 1744 USD

Publications


2. Andreev V.; Burdin V.; Volkov K.; Dashkov M.; Bukashkin S.; Buzov A.; Procopiev V.; Zharkov A., // Application of semiconductor optical amplifier for mobile radio communications networks based on radio-over-fiber systems, Proc. SPIE 9807, Optical Technologies for Telecommunications 2015, 98071D.

4. Kafarova A.; Faskhutdinov L.; Kuznetsov A.; Minaeva A.; Sevruk N.; Nureev I.; Vasilets A.; Bourdine A.; Morozov O.; Burdin V., //Quasi-interferometric scheme improved by fiber Bragg grating for detection of outer mechanical stress influence on distributed sensor being silica multimode optical fiber operating in a few-mode regime, Proc. of SPIE 9807, Optical Technologies for Telecommunications 2015, 98070K.


6. Bourdine A.; Burdin V.; Pashin S.; Denis E. Praporshchikov D.; Sevruk N., //Modified technique for differential mode delay map measurement by scanning of input/output ends of tested multimode fiber SPIE 9807, Optical Technologies for Telecommunications 2015, 98071C.


Photo report:

Competition of innovative projects "Umnik".
Master class for first year students.

V Russian Science Festival 0+.
Workshop with SPIE invited lecturers professor Albert Sultanov (USATU, Ufa) and professor Oleg Morozov (KNRTU-KAI, Kazan)

16-18 November, an international scientific-technical conference "Problems of technology and telecommunications technology" in the Ufa State Aviation Technical University.
28 January, Forum "Education. The science. Business" (Samara, EXPO-Volga)

The first meeting of the "Laser Chess Club"
Workshop "Photonics is simple and fun!".

Marth, 23, Samara Lyceum of Information Technologies.
7-8 April, “Applied Electrodynamics, Photonics and Live Systems”, Kazan KNTU KAI

18-19 April, 'Russian Start Up Tour – 2016'

24 May, Laser Khet Game Tournament
12 May, Youth contest of innovations and innovation projects (Moscow)