

SPIE Student Chapter Report 2009 of Taras Shevchenko National University of Kyiv

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Current SPIE Student Chapter Officers:

President – Khakimov Roman

Vise-president – Maksymov Andrii

Treasurer – Bukatar Oleksandra

Secretary – Daria Ivaschenko

Current SPIE Student Chapter Members:

1. Oleksandra Bukatar
2. Daria Ivaschenko
3. Roman Khakimov
4. Andrew Klimishin
5. Angelika Luchenko
6. Andrii Maksymov
7. Oleksiy Matyash
8. Olena Poljanska
9. Iegor Rafalovskyi
10. Igor Shavrin
11. Yevgeniy Shynkarenko
12. Valentyn Stadnytskyi

Since June 2008 our Chapter has been held the number of activities with educational and inspirational purposes.

1. Annual Young Scientists Conference

9-th International Young Scientists Conference "Optics & High Technology Material Science SPO 2008" was held at Physics Department of Taras Shevchenko Kyiv National University in October 23 – 26, 2008. It is a traditional Conference. As previous conferences its main goal was to broaden the range of knowledge in optics and to profound the range of interests of young researchers as well as exchange of the opinions on the decision of the mainstream optical problems.

We invited a lot of young scientists and well-known specialists from Belarus, Georgia, Germany, Greece, Hungary, Japan, Korea, Russia, United Kingdom, United States of America, Uzbekistan, and Ukraine in the field of optics and high technology material science. Among these young scientists there are many researchers whose names have been well-known in scientific world in particular Ph.Drs. Vasyl Shynkar, Oleg Skipa, Volodymyr Kudriavtsev, Igor Dotsenko, Alexei Rozhin, Vasyl Kravets, Sergiy Lysenko and Ph.D. student Mikhaylo Ozerov have already published their scientific results in

"Nature" Vol 455/25, September (Dotsenko, 2008), as well as Physical Review Letter (Rozhin, V. 99, 137402, 2007) and (Kravets, V.101, 087403, 22 August, 2008). Among other guests from abroad were Prof. Toru Aoki and his PhD student Bunji Shinomiya from the Research Institute of Electronics, Shizuoka University, Hamamatsu, Japan.

This year it will be 10th Conference International Young Scientists Conference "Optics and High Technology Material Science SPO 2009" devoted 175 anniversary of Taras Shevchenko Kyiv National University and 70 anniversary of its Optics Division.

2. Working with school children

We have been invited secondary school students to our Physics Department in any time. They also attended Conference Exhibition and Plenary Session of 9th International Young Scientists Conference "Optics & High Technology Material Science SPO 2008", where they had fruitful discussion with Advisor of SPIE Student Chapter, Head of Optics Department Prof. Leonid V. Poperenko dealing their future and undergraduates and PhD students.

We organize and maintain activities of school children for involving them to Optics Division. During the period of time from November 2008 to May 2009 one day a week we have been working with secondary school children to increase their math and physics level and revise them. Prof. Leonid V. Poperenko visited schools and gave lectures for school children inspiring them to choose Optics as a further profession.

Also we maintain educational competitions in physics between pupils and in particular Dr. Prokopets is the official juror on such competitions.

3. Attending Conferences and Meetings

6th year student Roman Khakimov, current President of our Chapter have attended the "Optics and Photonics 2008" in San Diego, CA in August with the support of Officer Travel Grant. He has made the report after this travel for Chapter and the staff of our Optics Division at Optics Division meeting and at SPIE Student Chapter Meeting.

Students Ksenia Kazachenko, Vadym Mudryi, Iegor Rafalovskyi and Andrii Maksymov as well as Dmytro Khomenkov (being pupil at that moment of Kyiv Natural-Scientific Lyceum № 145, and now 1th course student of Optics Division of TKNSU) were awarded by individual SPIE educational Grant in optical science and engineering.

Two teams consisting of eight 3rd, 4th and 5th years students, have attended as an International Delegation All-Russian Students Competition in Optical Engineering 2008 (Всероссийская Студенческая Олимпиада по Опотехнике) in St.-Petersburg. Both teams showed excellent results and gained 3rd Prize in the team event with a clean sweep in lightning tournament. We are preparing to the current year competition involving new students.

We are going to develop the Collaboration between students from SPIE Students Chapter in Kharkiv and groups of successful scientific activity (from Kyiv National University), make presentations of their works for other Universities (for example, Ukrainian(Kharkov, Lviv, Odesa) and Russian (Moscow, St.-Petersburg) Universities, European Universities or companies) to establish new R&D collaborations as a necessary element for improvement of optical education and optical researches.

4. Financial Report

The chapter funding w spent on reimbursement of bills on accommodation and tickets concerning the All-Russian Students Competition in Optical Engineering 2008 in St.-Petersburg.