Executive Summary:
The status of the Institute for Atomic Physics Student Chapter is currently active, as it has been since April 2001. Our Chapter includes members from National Institute for Laser, Plasma and Radiation Physics and University of Bucharest.

There have been some changes regarding membership status as following: recently new members have joined the Chapter, while several initial members renounced to their membership status. We intend to attract more new members from our and other institutes and universities, therefore various outreach activities, concerning the current and next year, are going to be implemented.

The Chapter holds quarterly meetings, where chapter related activities, recruitment of new members, future events and current issues are discussed. On the 29th of March 2019, elections regarding the Board of Chapter Officers took place.

One of the biggest challenges that our chapter faced this year has been succession planning. Many of the 2018 - 2019 officers graduated. We have worked hard to ensure that the new 2019 - 2020 officers range in level of study so that future officers will have better continuity of leadership training.

Contact Information:
For general questions about our chapter, please email our chapter advisor, Dr. Angela Staicu, at angela.staicu@inflpr.ro.
Chapter web site: http://spie.inflpr.ro/
Facebook Page: https://www.facebook.com/SPIE.Romania
2018 - 2019 Officer Listing:

Anca Florina Bonciu
President
2nd Year PhD’s Student
anca.bonciu@inflpr.ro

Nicoleta Luminița Dumitrescu
Vice president
Last Year PhD’s Student
nicoleta.dumitrescu@inflpr.ro

Alina Irina Călugăr
Secretary
Last Year PhD’s Student
alina.calugar@inflpr.ro

2019 – 2020 Officer Listing:
We don’t yet know the 2020 officers, but the date of the upcoming election is in February 2020.
## Student and Community Membership

At the time of this report, there are 12 student members affiliated to the Institute of Atomic Physics Chapter.

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Expected Grad Month/Year</th>
<th>SPIE Membership Expiration Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florin Andrei</td>
<td><a href="mailto:florin.andrei@inflpr.ro">florin.andrei@inflpr.ro</a></td>
<td>October 2021</td>
<td>11/20/2020</td>
</tr>
<tr>
<td>Anca Florina Bonciu</td>
<td><a href="mailto:anca.bonciu@inflpr.ro">anca.bonciu@inflpr.ro</a></td>
<td>October 2021</td>
<td>10/15/2020</td>
</tr>
<tr>
<td>Mihai Boni</td>
<td><a href="mailto:mihai.boni@inflpr.ro">mihai.boni@inflpr.ro</a></td>
<td>May 2020</td>
<td>12/10/2019</td>
</tr>
<tr>
<td>Bogdan Stefanita Calin</td>
<td><a href="mailto:calin.stefanita@inflpr.ro">calin.stefanita@inflpr.ro</a></td>
<td>May 2020</td>
<td>12/07/2019</td>
</tr>
<tr>
<td>Alina Irina Calugar</td>
<td><a href="mailto:alina.calugar@inflpr.ro">alina.calugar@inflpr.ro</a></td>
<td>October 2020</td>
<td>12/04/2019</td>
</tr>
<tr>
<td>Andra Dinache</td>
<td><a href="mailto:andra.dinache@inflpr.ro">andra.dinache@inflpr.ro</a></td>
<td>May 2020</td>
<td>12/10/2019</td>
</tr>
<tr>
<td>Nicoleta Luminita Dumitrescu</td>
<td><a href="mailto:nicoleta.dumitrescu@inflpr.ro">nicoleta.dumitrescu@inflpr.ro</a></td>
<td>June 2020</td>
<td>12/03/2019</td>
</tr>
<tr>
<td>Nicoleta Enea</td>
<td><a href="mailto:nicoleta.enea@inflpr.ro">nicoleta.enea@inflpr.ro</a></td>
<td>October 2021</td>
<td>11/19/2020</td>
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<tr>
<td>Irina Negut</td>
<td><a href="mailto:negut.irina@inflpr.ro">negut.irina@inflpr.ro</a></td>
<td>February 2020</td>
<td>12/10/2019</td>
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<tr>
<td>Ovidiu Vasile Nitescu</td>
<td><a href="mailto:nitescu.ovidiuvasile@gmail.com">nitescu.ovidiuvasile@gmail.com</a></td>
<td>October 2021</td>
<td>04/02/2020</td>
</tr>
<tr>
<td>Agota Simon</td>
<td><a href="mailto:agota.simon@inflpr.ro">agota.simon@inflpr.ro</a></td>
<td>September 2020</td>
<td>06/12/2020</td>
</tr>
<tr>
<td>Eduard Sirjita</td>
<td><a href="mailto:eduard.sirjita@inflpr.ro">eduard.sirjita@inflpr.ro</a></td>
<td>October 2023</td>
<td>08/21/2020</td>
</tr>
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## Activities Report

**Attending the Student Leadership Training**

**Organizer:** SPIE  
**Date/Location:** August 2019, San Diego, USA  
**Participants:** Anca Florina Bonciu and Ovidiu Vasile Nitescu

Miss Anca Bonciu, president of the Institute for Atomic Physics SPIE Chapter in 2019, and Mr. Ovidiu Nitescu, member of the Institute for Atomic Physics SPIE Chapter participated in August 2019 at the Student Leadership Training Workshop in San Diego, USA. Their participation was possible thanks to Officer Travel Grant received from SPIE.

*Figure. Miss Anca Bonciu and Mr. Ovidiu Nitescu at the Student Leadership lunch*
During the Student Chapter Leadership Workshop, the following topics were discussed: intercultural communication, leadership skills development, etc.; conducted under the supervision of Dr. Jean-Luc Dumont.

Figure. Sketches made during the Student Leadership Training Workshop

Thanks to the seating system that required participants to change tables often, Miss Bonciu and Mr. Nițescu had the chance to meet a lot of interesting people and establish new connections with other chapters from around the world.

Participation to this event helped to promote the Romanian Chapter and the National Institute for Lasers, Plasma and Radiation Physics. A poster with our Chapter activities was presented during the Chapter presentation poster session.

Figure. The official picture with the chapters’ leaders from all around the world

Laboratory visits during “School in a different way: To know more, to be better” programme
Organizer: Romanian Ministry of Education
Date/Location: April-November 2019, National Institute for Lasers, Plasma and Radiation Physics
Participants: 250 high school and primary school students

A large number of high school and primary school pupils visited the National Institute for Lasers, Plasma and Radiation Physics within the frame of the “School in a different way: To know more, to be better” programme, organized by the
Romanian Ministry of Education. The programme is devoted to educational extracurricular and non-academic activities, taking place in each year since 2012. The main purpose of this programme is to involve students and teachers in various scientific activities in order to highlight their talents and abilities in different scientific fields. During the programme, the National Institute for Lasers, Plasma and Radiation Physics received a large number of students and their teachers. The pupils had a tour of different laboratories within our research facility. They presented a huge interest in the field of optics, having numerous questions regarding the institute research activities. Our chapter was deeply involved in the program since the Institute for Atomic Physics Chapter members were responsible for organizing and managing the groups and activities during the whole program. Besides the laboratory visits, an outreach activities room was set up; the activities varied for each group, depending on the level of education. We hope that their enthusiasm, after visiting our laboratories, will turn them into future physics students and researchers in the field of optics. In the followings, let us present you some pictures of our members during the visits in the laboratories.
Figure. Students of all ages visiting different laboratories of Laser Department from the National Institute for Lasers, Plasma and Radiation Physics, including going to schools that are in need.
Participation to “European Researchers’ night”
Organizer: European Commission H2020 Framework Program for Research and Innovation, Marie Sklodowska-Curie Actions
Date/Location: September 2019, Bucharest
Participants: high school and primary school pupils, students, parents

The first European Researchers’ Night event was organized in 2005 and so far it has attracted over 5 million visitors.

European Researchers’ Night is part of events series funded by the European Commission H2020 Framework Program for Research and Innovation, Marie Sklodowska-Curie Actions (MSCA) that aims to demonstrate to the public what being a researcher means and how interesting the research work can be. The events organized on this occasion in about 300 European cities explain, in an interactive way, researchers’ contribution to the society.

The event offers scientists the opportunity to connect with the audience, and gives the visitors a chance to discover the world of science and the people behind the experiments. The project is addressed to curious minds and young people who want to start a career in research, offering a wide variety of scientific and educational activities.

It has become a custom for the SPIE Institute for Atomic Physics Chapter to participate to this event with various outreach activities. Below are some pictures taken at the European Researchers’ night 2019:

![Figure. Mr. Eduard Sirjita, member of our Chapter, explaining optics principles by using the Optics Outreach Kit](image)

Participation to the CETAL’s workshop
Organizer: Centre for Advanced Laser Technologies
Date/Location: 6-9 November 2019, CETAL
Participants: INFLPR and CETAL young researchers

The 3th edition of the CETAL Workshop took place from November 4 to 6, 2019. As every year, they have invited everyone to the CETAL Seminar Room for a series of joint scientific seminars with the other laboratories in INFLPR. The
workshop was dedicated to colleagues from INFLPR or from outside the institute who have accessed the CETAL infrastructure in the last year, but also those who intend to carry out activities in possible connection with the infrastructure equipment.

At this workshop our young members participated and had oral and poster presentations. It was an opportunity for colleagues with limited experience in supporting oral presentations, as an opportunity to develop their communication skills in science.

This year the Workshop hosted on the 3rd day, on November 6, a Round Table of our SPIE Student Chapter. Our Advisor had a presentation regarding the activities of our Chapter in the last years and the opportunities that students and young researchers have as SPIE Chapter members. We discussed with other colleagues from the Institute about commune activities such as organizing a conference next year. This will create an opportunity for our member to develop organizing and management skills, to present their results and establish new relations and connections.

![Figure. Dr. Angela Staicu holding her presentation.](image)

**Treasurer’s Report**

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<th>Date</th>
<th>Description</th>
<th>Notes</th>
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<th>Debit (Expense)</th>
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<td>SPIE Activity Grant</td>
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<td>3/5/2019</td>
<td>Chapter Elections Meeting</td>
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<td>5/6/2019</td>
<td>Outreach activities during Programme “School in another way”</td>
<td>Materials for outreach activities/Cookies and Chocolate for Children</td>
<td>$55</td>
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<td>11/6/2019</td>
<td>SPIE Chapter Round Table</td>
<td>Food and beverage for lunch</td>
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<td>*12/15/2019</td>
<td>Annual Christmas Party, participation of the children of our colleagues</td>
<td>Cookies, Beverages</td>
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<td>12/31/2019</td>
<td>Anticipated End of Year Balance</td>
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*Anticipated funding amounts.
Conclusions and Recommendations

We are planning to continue our main activities, like educational activities for high school teenagers and students, laboratory visits and outreach activities. Besides these, we would like to organize the Annual Conference of our Chapter that this year due to financial and time constraints we could not organize. At the Round Table we figured out this to take place during a larger conference of the Institute.

The following planned activities are briefly listed below:
1. Promoting optics by developing workshops, volunteering programmes and supplementing science education;
2. Organizing seminars, laboratory visits and interactive communications undergraduate students;
3. Maintaining close relations, exchanging experiences and planning scientific activities with other SPIE Chapters around the world;
4. Continuing and improving the collaboration between our Chapter and different universities from our country;
5. Participating and organizing an workshop/conference for students in collaboration with National Institute for Lasers, Plasma and Radiation Physics;
6. Applying for SPIE grants and scholarships available for the chapter and individual members in order to support travel expenses and research activities.
7. The selection of the member(s) who will represent our chapter at the 2020 SPIE Student Leadership Workshop.
8. Bringing on a communications officer that will help us post our events on social media.