Student Chapter Report 2015
Ruhr Universität Bochum Chapter

2014-2015 Chapter Officers

President: Jan Hoppius jan.hoppius@rub.de
Vice-President: Jannis Köhler jannis.koehler@rub.de
Secretary: Lu He helensysu@gmail.com
Treasurer: Susana A. Fernandes fernandes@lat.rub.de
Advisor: Andreas Ostendorf andreas.ostendorf@rub.de

Current members (24)

Adamou Adinda-Ougba
M. A. Al-Mamun
Neda Baktash
Vira Besaga
Jan Bussmann
Maxim Cherkashin
Rattana Chuenchom
Henrik Dobbelstein
Benjamin Döpke
Markus Grafen
Jared Ombiro Gwaro
Galip Reha HEPGÜLER
Jan Hoppius
Aghigh Jalehdoost
Jannis Köhler
Marcel Lenz
Markus Lindemann
Stella Maragkaki
Devapriyo Mithun
Rouven Pilny
Opeoluwa Rodemade
Anton Saetchnikov
Dmitry Zimin
Gordon Zyla
Chapter Current Activities (July 2014 – June 2015)

- [07.2014] Film project “Why do rainbows occur?” (in german) as image video for our laser study program - https://www.youtube.com/watch?v=06Q4nwqfs8c
- [08.2014] Attending the SPIE Leadership Workshop & Optics and Photonics in San Diego (Jannis Köhler and Jan Hoppius)
- [13.02.2014] Leadership meeting
- [18.06.2015] Mastering the future – master degree information day for graduated bachelor students – introduction of our study program “Lasers and Photonics”
- [06.07.2015] Chapter meeting and elections 2015 – 16 attendees – Markus Lindemann (New President), Jannis Köhler (Vice-President), Gordon Zyla (Treasurer), Jan Hoppius (Secretary)

* School student workshop Light Shard 2015

In February 2015 two school students took the chance to do a two weeks workshop at our university. In cooperation with the research group “Applied Laser Technologies” we organized a workshop that follows some youtube videos about “shard lights” (e.g. “Make your own Shard Light” https://www.youtube.com/watch?v=kgPghSJhkzU). Goal of this project was to motivate the attendees to realize creative engineering projects, especially in light design. Therefore the students had to plan and build their shard lights from scratch. Starting point was a technical sketch with design aspects and space-saving implementation of necessary electronics. With an RGB led stripe and conventional arduino modules for voltage conversion and led drivers they designed and programmed the light functions from blinking to fading colors. The base of wood was cut, milled and drilled to fit to the polymer shard. The gravure was done with an ultra short pulse laser from the chair of applied laser technologies. The base design is flexible to change the chair logo (see image) with our chapter logo. Overall the project was huge success and motivated the school students a lot in learning programming and electrical engineering. Due to this great feedback we plan to support the school workshops next year again.
Chapter Future Activities (June 2015 – future)

- Realization of an excursion to a German car manufacturer
- Excursion to an optics - research department
- School student workshop in light design and engineering (LED control and applications) in February 2016
Financial Status

1. Beginning Balance 302,98 EUR
2. Funds raised and expended

<table>
<thead>
<tr>
<th>Source / Destination</th>
<th>Amount (EUR)</th>
</tr>
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<tbody>
<tr>
<td>Beginning Balance</td>
<td>302,98</td>
</tr>
<tr>
<td>SPIE Funding: Activity Grant</td>
<td>536,39</td>
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<td>Interests</td>
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<td>Sum</td>
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Expenses

<table>
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<tr>
<th>Source / Destination</th>
<th>Amount (EUR)</th>
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<tr>
<td>Visiting Lecturer Day</td>
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<td>Christmas Celebration</td>
<td>59,79</td>
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<td>Laser Projector</td>
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<td>Chapter Meeting (June - approx. 25€)</td>
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<tr>
<td>Sum</td>
<td>197,42</td>
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Total balance (27.07.2015) 642,27

3. Details of SPIE funding received
4. Other sources
5. Ending Balance 642,27