### Elected Officers

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Name</th>
<th>Email</th>
<th>Member No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>President</td>
<td>Ms. Laura Tobin</td>
<td><a href="mailto:laura.tobin@ucd.ie">laura.tobin@ucd.ie</a></td>
<td>3246337</td>
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<tr>
<td>2.</td>
<td>Vice-President</td>
<td>Mr. Haoyu Li</td>
<td><a href="mailto:haoyu.li@ucdconnect.ie">haoyu.li@ucdconnect.ie</a></td>
<td>3445844</td>
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<tr>
<td>3.</td>
<td>Secretary</td>
<td>Mr. Yue Qi</td>
<td><a href="mailto:yue.qi@ucdconnect.ie">yue.qi@ucdconnect.ie</a></td>
<td>3441453</td>
</tr>
<tr>
<td>4.</td>
<td>Treasurer</td>
<td>Mr. Shi Liu</td>
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<td>3446667</td>
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<tr>
<td>5.</td>
<td>Women's Officer</td>
<td>Ms. Liang Zhao</td>
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<tr>
<td>6.</td>
<td>Education Officer</td>
<td>Mr. Md. Atikur Jewel</td>
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<td>3538220</td>
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<tr>
<td>7.</td>
<td>Advisor</td>
<td>Prof. John Sheridan</td>
<td><a href="mailto:john.Sheridan@ucd.ie">john.Sheridan@ucd.ie</a></td>
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### Chapter Activities From June 2010 to April 2013:

In September 2010, Mr. Shi Liu and Mr. Yue Qi joined our research group and later became new members of our SPIE student chapter.

In December 2010, Dr. Shui Liu finished his Ph.D study in our group under the advising of Prof. John Sheridan.

In January 2011, Dr. Jinxin Guo was on a visiting trip to University of Science and Technology Beijing, China.

(Left) SPIE Europe Optics + Optoelectronics 2011.

In April 2011, SPIE Europe Optics + Optoelectronics 2011 was held in Prague. Dr. Jinxin Guo together with former member Dr. Michael Gleeson and the chapter advisor Prof. John Sheridan attended.
Thanks to the support of the student chapter officer travel grant. This year a student member from our chapter Mr. Dayan Li could attend the conference in San Diego to present his work and he also helped us to build a closer relationship with the student chapters all over the world.

In September 2011, the Photonics Ireland Conference was held in Dublin. Ms. Laura Tobin, Dr. James Ryle, Mr. Yue Qi and Mr. Shi Liu and was attending the event to present their work on photopolymer materials, image processing etc.
In September 2011, Dr. Elen Tolstik from University of Jena came to visit us. We had a nice conversation about the collaboration later.

(Left) Mr. Dayan Li in the optical exhibition participate with the TU-ilmenau student chapter.

From October 2011 to December 2011, Mr. Dayan Li was studying as an exchanging student at Ilmenau University of Technology (TU-ilmenau), Germany.

During the same period, Dr. Jinxin Guo was doing research in Prof. Kalaichelvi Saravanamuttu's group in McMaster University, Canada. His research topic is "Collective dynamics of populations of weakly correlated filaments of incoherent white light".

(Right) Prof. Kalaichelvi Saravanamuttu

In 2012, Prof. Kalaichelvi Saravanamuttu was invited by Prof. John Sheridan to give a talk here in University College Dublin.

In April of 2012, UCD SPIE Student Chapter members Dr. Jinxin Guo and Mr. Yue Qi participated in the SPIE Photonics Europe conference in Brussels. Each of the group gave an oral or poster presentation presenting their research work. The event was well organized and turned to be a huge success.
(Left) Banners outside St. Michael’s Cathedral in Brussels tell the story: laser and light technology experts are in town. (Right) The B-PHOT team pose for a group photo in the garden outside the Square Brussels Meeting Centre

During the summer holiday 2012, a French student Jonathan Lefebvre from Lille was in an internship here.

(Left) Dublin Mini Maker Faire, Student Chapter outreach event.

In July 2012, the UCD SPIE and OSA Student Chapter has been selected to give a workshop in the Science Gallery in as part of Dublin Mini Maker Faire for Dublin City of Science. We were giving a workshop on DIY (dye-sensitised) solar cells. The Student Chapter was demonstrating Dye-Sensitised Solar Cells and promoting the research carried out in UCD.

Around 10 members were participating in this event.
In August 2012, thanks in part to funding received from the SPIE, we were able to send over our chapter members to the SPIE’s Annual Photonics + Optics meeting in San Diego, United States. Mr. Shi Liu went over to San Diego and gave oral presentations on his research and also attended the student leadership training day. The conference was a great success and there was a considerable emphasis on student event.
From August to November, Mr. Dayan Li was in an exchanging program at Ilmenau University of Technology (TU-ilmenau), Germany for the second time.

From September 2012, a German student Saskia Waechter was on a 16 weeks’ Erasmus exchanging program studying in our group. She is currently seeking a post graduate position here.

FRIDAY NIGHT GAME SOCIAL: KHEt

In December 2012, we were holding the Friday Night GAME Social that appeals to those of people who like to combine strategy games with... lasers! Khet is an abstract strategy board game in which two players fire lasers to strike and remove Egyptian-themed game pieces from the board. Most of the pieces are mirrored on one or more sides, allowing players to alter the trajectory of the laser beam each time it is fired by changing the position of the playing pieces. When a piece is struck by a laser on a non-mirrored side, it is eliminated from the game. The object is to hit your opponent’s pharaoh with a laser, thereby claiming victory, all the while protecting your own king.

In this way, Khet is similar to chess. However, with only four moveable pieces and much simpler rules, Khet takes only a few minutes to master. Figuring out how to position your game pieces so they’ll reflect laser beams onto your opponent’s vulnerable pieces, however, is another story entirely. The good news is that since Khet only takes about 15 minutes to play, you’ll have time to employ new tactics again and again throughout the evening.

Since its debut in 2005, Khet has been getting plenty of attention, including a Mensa Select Award in 2006, and a National Parenting Publications Award and iParenting Media Award in 2007.

This event was a great success with the participation of all the chapter members. 620 Euros was spent on the purchasing of Khet and the related goods.
In January 2013, Dr. Jinxin Guo finished his Ph.D study in our research group.

Dr. Jinxin Guo's Ph.D Thesis at his working place in the office.

From year 2011 to date, Mr. Yue Qi has been carried out in collaboration with colleagues in the Tyndall Institute in Ireland (Dr. Michael Gleeson), the University of Alicante in Spain (Dr. Sergi Gallego) and at the University of Jena in Germany (Dr. Elen Tolstik and Prof. Richard Kowarschik).

In February 2013, Mr. Haoyu Li went on a visiting trip to Prof. Xiudong Sun's research group in Harbin Institute of Technology, China.

In February 2013, Mr. Yue Qi participated in the Young Persons Lecture Competition 2013 Irish Final hosted by Materials Ireland in the Focas Institute in Dublin Institute of Technology.

We are currently having an exchanging Ph.D student Michala Henzlova from Brno University of Technology, Czech Republic studying in our group until July.

From year 2011 until now, we have more than 6 undergraduate students working in our group doing their final year project.
The following papers have been produced by Student Chapter members since 2010:

2010


DOI: 10.1021/ma101723y
2011


ACCEPTED FOR PUBLICATION:


SUBMITTED AND UNDER REVIEW:


PATENTS


**Upcoming Activities:**

In April, Mr. Haoyu Li, Mr. Yue Qi will attend the SPIE Optics + Optoelectronics Conference in Prague to present their new idea on the AA/PVA and PQ/PMMA photopolymer material. The chapter advisor Prof. John Sheridan will be the chair of the conference again this year.

Mr. Shi Liu and Mr. Yue Qi have made the submission to this year's SPIE Optics + Photonics conference in San Diego.

We are running a number of team building social activities in conjunction with the UCD-O.S.A Student Chapter.

Officer elections will be held soon. An outreach event will be held in the summer in the city centre of Dublin City (off campus). We are looking forward to continuing our research work, attending conferences, publishing papers and networking with our peers both here in and out of Ireland. We are extremely grateful to SPIE for all their support and funding over the past years and hope to receive further support in the following year. This funding has been used to support chapter members travelling abroad to SPIE sponsored events and for social activities bringing chapter members together in a comfortable environment to allow them to share thoughts and ideas and have fun.

(Left) A “Science Family Tree” proves that we are the “Descendants” of Prof. Isaac Newton.
Current Student Chapter Members:

<table>
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<tbody>
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<tr>
<td>Mr. Benjamin Lochocki</td>
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<tr>
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<td>Mr. Md. Atikur Jewel</td>
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<tr>
<td>Mr. Shun Minq Lee</td>
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</tr>
<tr>
<td>Mr. Yue Qi</td>
<td><a href="mailto:yue.qi@ucdconnect.ie">yue.qi@ucdconnect.ie</a></td>
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FINANCIAL REPORT

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