



Optical and Adaptational  
Limits of Vision

[www.itn-opal.eu](http://www.itn-opal.eu)

# 1<sup>ST</sup> ANNUAL MEETING

## AGENDA

**September 20 - 21, 2012**

Hosted by OpAL Project Partner No. 4, Susana Marcos  
CSIC - Visual Optics and Biophotonics Lab

**Madrid, SPAIN**

Version September 10, 2012



OpAL (PITN-GA-2010-264605) is an Initial Training Network (ITN) funded by the European Commission under the Seventh Framework Programme (FP7)



## LOCATIONS

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### CONFERENCE ROOM

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Meeting rooms at the **Institute of Optics:**

Sala de Conferencias

Instituto de Optica, CSIC

Serrano 121



**See map on page 8**

### ACCOMODATION

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Rooms for everyone have been reserved at:

**Residencia de Estudiantes**

Calle Pinar 21, 28006 Madrid

Phone: +34 - 91 561 32 00

Fax: +34 - 91 563 81 27

E-mail: [reservas@residencia.csic.es](mailto:reservas@residencia.csic.es)

<http://www.residencia.csic.es/en/hotel/accomodation.htm>

**See map on page 8**

## Wednesday, September 19, 2012

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### Optional Event:

Starting 17:30

- Transportation to the Museo Reina Sofia
- Guided tour at the Museo Reina Sofia
- Walking Tour of Literary Madrid
- Dinner at Restaurant La Mucca
- Transportation back to CSIC Campus

## Thursday, September 20, 2012

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9:00 – 9:15

**Welcome by host & coordinator**  
(Susana Marcos / Frank Schaeffel)

9:15 – 10:15

### KEYNOTE LECTURE

*Stephen A. Burns (Indiana University)*  
*Member of the External Advisory Board*

10:15 – 10:45

**Election of OpAL's Supervisory Board**  
Composition:

- Research and Managing Coordinator
- 1 Principal Investigator ACADEMIA
- 1 Principal Investigator PRIVATE SECTOR
- 2 ESRs / ERs

10:45 – 11:15

**Polychromatic photorefractive, fundal reflectance and chromatic aberration** (20' + 10' discussion)

*Yun Chen (ESR), Network Partner No. 1, Tübingen (Germany)*

11:15 – 12:00

**Coffee Break** (including poster session)

12:00 – 12:30

**Fixational eye movements to low luminance stimuli**  
(20' + 10' discussion)

*Ulrich Wildenmann (ESR), Network Partner No. 1, Tübingen (Germany)*

12:30 – 13:00

**Intraocular scattering: new measuring techniques, sources and impact in vision** (20' + 10' discussion)

*Alexandros Pennos (ESR), Network Partner No. 2, Murcia (Spain)*

13:00 – 13:30

**Impact of eye's aberrations on visual performance at low luminance** (20' + 10' discussion)

*Dimitrios Christaras (ESR), Network Partner No. 2, Murcia (Spain)*

13:30 – 14:00

**Sensitivity and adaptation to optical blur in the periphery** (20' + 10' discussion)

*Abinaya Priya Venkataraman (ESR), Network Partner No. 3, Stockholm (Sweden)*

14:00 – 15:30

Lunch at the Residencia de Estudiantes

15:30 – 16:00

**Role of ocular chromatic aberration in peripheral vision** (20' + 10' discussion)

*Simon Winter (ESR), Network Partner No. 3, Stockholm (Sweden)*

16:00 – 17:00

Poster Session

Starting 17:30

Cultural Event:

- Transportation to Monastery
- Visit of Descalzas Reales Monastery
- Walking Tour of Habsburg Madrid
- Dinner at the restaurant Ex-Libris
- Transportation back to CSIC Campus



## Friday, September 21, 2012

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- 9:00 – 9:30**                      **Management & Coordination of OpAL:**  
*Recruitment status, Career Development Plan, Meetings & Training, Mid-Term Review, Dissemination*  
*Sigrid Diether, Network Partner No. 1, Tübingen (Germany)*
- 09:30 – 10:00**                      **Neural Adaptations to Multifocal Optical Patterns**  
(20' + 10' discussion)  
*Aiswaryah Radhakrishnan (ESR), Network Partner No. 4, Madrid (Spain)*
- 10:00 – 10:30**                      **Monitoring lens accommodation with imaging techniques**  
(20' + 10' discussion)  
*Mengchan Sun (ESR), Network Partner No. 4, Madrid (Spain)*
- 10:30 – 11:15**                      **Coffee Break (including poster session)**
- 11:15 – 11:45**                      **Light scatter in eye and its impact on vision**  
(20' + 10' discussion)  
*Onurcan Sahin (ESR), Network Participant No. 5, Heraklion (Greece)*
- 11:45 – 12:15**                      **Using artificial neural networks to model long-term adaptation to changes in the wavefront aberration** (20' + 10' discussion)  
*Ebrahim Kamrani (ESR), Network Participant No. 5, Heraklion (Greece)*
- 12:15 – 12:30**                      **Meeting Supervisory Board** (decision on Poster Prize)
- 12:30 – 13:00**                      **Diurnal variations of visual performance and Algorithms of visual processing to adapt to optical aberrations** (20' + 10' discussion)  
*Yohann Benard (ER), Network Participant No. 6, Munich (Germany)*
- 13:00 – 13:30**                      **Diurnal variations of visual performance and Role of chromatic aberration of the eye optics on vision** (20' + 10' discussion)  
*Mohammad Taghi Fathi (ER), Network Participant No. 6, Munich (Germany)*



**13:30 – 14:00**

**General Discussion**

and

**Presentation of Poster Prize**

## PARTICIPANTS

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### Principal Investigators

1. **Frank Schaeffel** Network Partner No. 1, Tuebingen (*Germany*)
2. **Pablo Artal** Network Partner No. 2, Murcia (*Spain*)
3. **Linda Lundstroem** Network Partner No. 3, Stockholm (*Sweden*)
4. **Susana Marcos** Network Partner No. 4, Madrid (*Spain*)
5. **Harilaos Ginis** Network Participant No. 5, Heraklion (*Greece*)
6. **Gregor Esser** Network Participant No. 6, Rodenstock, Muenchen (*Germany*)

### Fellows

1. **Yun Chen** (ESR) Network Partner No. 1, Tübingen (*Germany*)
2. **Ulrich Wildenmann** (ESR) Network Partner No. 1, Tübingen (*Germany*)
3. **Alexandros Pennos** (ESR) Network Partner No. 2, Murcia (*Spain*)
4. **Dimitrios Christaras** (ESR) Network Partner No. 2, Murcia (*Spain*)
5. **Abinaya Priya Venkataraman** (ESR) Network Partner No. 3, Stockholm (*Sweden*)
6. **Simon Winter** (ESR) Network Partner No. 3, Stockholm (*Sweden*)
7. **Aiswaryah Radhakrishnan** (ESR) Network Partner No. 4, Madrid (*Spain*)
8. **Mengchan Sun** (ESR) Network Partner No. 4, Madrid (*Spain*)
9. **Onurcan Sahin** (ESR) Network Partner No. 5, Heraklion (*Greece*)
10. **Ebrahim Kamrani** (ESR) Network Partner No. 5, Heraklion (*Greece*)
11. **Yohann Benard** (ER) Network Partner No. 6, Munich (*Germany*)
12. **Mohammad Taghi Fathi** (ER) Network Partner No. 6, Munich (*Germany*)

### Management

1. **Sigrid Diether** Network Partner No. 1, Tuebingen (*Germany*)



## **Advisory Board**

1. **Stephen A. Burns** Indiana University, Bloomington (*USA*)
2. **Dan-Eric Nilsson** Lund University (*Sweden*)



## LOCATION

