OPTICON Schools

Organised by **OPTICON WP 12**

Heidi Korhonen DARK, Niels Bohr Institute University of Copenhagen



WP12 board members: T. Bonev (BG), M. Dennefeld (FR), R. Gredel (D), P. Kabath (CZ), H. Korhonen (DK, chair), E. Lindfors (FI), A. Pizzella (I), M. Ward (UK) OPTICON representative: Gudrun Pebody (UK)



Main tasks

Support different types of schools

- Main school of the year: NEON Observing School
- Also organising other events:
 - life-long training: specialised workshops
 - archival schools
 - organising events in the Eastern Europe (e.g. data reduction schools, or 'hot topics' conferences)
 - instrumentation oriented schools/workshops
- Also developing synergies: joint ESO/IAU events





NEON Observing schools



2015 NEON School in Asiago





- Organised yearly in different European observatories
- 16-20 participants
- Student selection striving to achieve diversity of origin and gender
- Meant for people without prior observing experience, but a need to obtain it
- All the steps of observations from planning and observing to data reduction and analysis
- Groups of four students led by an experienced tutor
- Hands-on experience combined with expert lectures



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Other events



- Hot Topic events
 - Formerly called Awareness conferences
 - Raising awareness of big questions in astrophysics
 - Have also been organized in collaboration with IAU
- Archival schools
 - Emphasis on EU observing facilities: ESO and OPTICON TNA telescopes
 - Usage of existing archival data
- Schools on specific techniques
 - For example specific techniques/instruments
 - Some schools organized together with ESO
- In many school we also organize career sessions, proposal writing exercises, etc



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Schools in 2017



2010 NEON School on La Palma





2017 NEON school on La Palma

- September 4-17
- Using Nordic Optical Telescope and Isaac Newton Telescope
- 16 students selected from 72 applicants (from 13 different countries)

Instrumentation School in Copenhagen

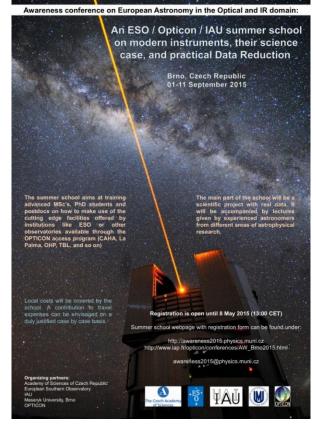
- July 3-12
- 1st OPTICON Instrumentation School
- **Emphasis on Transient Sky**
- Same format as for the 'Alpbach school in space instrumentation'
- Instrument Phase A study with a help of an experienced tutor
- 22 participants selected from 58 applicants (from 13 different countries)



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Plans for 2018 - 2020

- Yearly NEON Observing Schools
- At least one other event every year:
 - Proposal writing school planned for August 2018 (Poland)
 - Multi-wavelength/messenger school (optical/IR combined with X-ray, UV, sub-mm, gravitational waves, high-energy particles...) planned for 2019
 - Specific techniques, e.g., AO, wide field, etc (TBC)
 - TBD (suggestions welcome)
 - Some of these events will also include 'Hot topics' elements











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Lessons learned

- Hands-on experience unique
- Work in small groups essential
- Quality of tutors is the key for success
- Diversity of origins and nationalities favours interactions and future collaborations
- Regularity! Nobody should fall through the holes of the net...











Opticon Schools - Horizon 2020

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OPTICON schools are a community training programme, which delivers expert knowledge in infrastructure use and development, and helps to integrate newer communities. The main programme consists of a yearly NEON Observing school that gives hands-on observing experience to young astronomers at a professional telescope. Additionally, OPTICON organises other schools concentrating on different aspects of observational astronomy, life-long learning, and integrating communities.

Observing Schools





3 Jul - 12 Jul 2017

OPTICON Instrumentation School The first OPTICON Instrumentation School will take place in Copenhagen ... »





2 Sep - 16 Sep 2017

2017 NEON Observing School 2017 NEON Observing School takes place on La Palma September 3-16, 2017. ... »

All events



Opticon-schools.nbi.ku.dk



Summary



Continuing the core programme of NEON schools and "Hot topics in Astrophysics"

New emphasis for 2017 – 2020

- Time-domain astronomy: instrumentation school focused on time domain, possible projects in observing schools
- Infrared astronomy in observing schools, preparation for JWST & E-ELT
- Multi-wavelength data, combining optical observations e.g. with XMM-Newton, HST, ALMA, ...







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