

Adaptive Optical System Technologies II (AS06)

Part of SPIE's International Symposium on Astronomical Telescopes and Instrumentation
22–28 August 2002 • Hilton Waikoloa Village Hotel • Waikoloa, Hawaii

Conference Chair: **Peter L. Wizinowich**, Keck Observatory

Cochair: **Domenico Bonaccini**, European Southern Observatory (Germany)

Program Committee: **Richard G. Dekany**, California Institute of Technology.; **Brent L. Ellerbroek**, Gemini Observatory; **Glen Herriot**, Herzberg Institute of Astrophysics/National Research Council Canada; **Enrico Marchetti**, European Southern Observatory (Germany); **Claire E. Max**, Lawrence Livermore National Lab.; **Roberto Ragazzoni**, Osservatorio Astronomico di Padova (Italy); **Gerard Rousset**, ONERA (France); **Hideki Takami**, National Astronomical Observatory of Japan

Adaptive Optics (AO) has matured to the point where AO is now a fundamental part of the design of any new observatory. Natural Guide Star Adaptive Optics (AO) is routinely used for astronomical science at several observatories, AO facilities continue to come on-line on 8-10 m class telescopes, single Laser Guide Star (LGS) astronomy is on the horizon, at least one multiconjugate AO system has been funded, and conceptual AO designs for Extremely Large Telescopes (ELTs) are being created. On the technology side there continues to be progress on the technologies needed for AO: lasers, detectors, correctors, control systems, etc.

The goals of this conference are to review the progress of AO systems in astronomy and especially to inspire the discussion of creative new solutions for the future. Examples of stimulating and challenging topics we would like to address include the debate on the use of sodium or Rayleigh laser guide stars or no laser guide stars for ELTs, designs for ELT AO systems, and the performance versus predictions for existing AO systems. We solicit your ideas, and offers of participation, for panel discussions and working groups, as well as soliciting papers in the following areas:

- AO for Extremely Large Telescopes
- AO for Large Telescopes
- Laser Guide Star AO
- multiconjugate AO
- new science capabilities with AO
- lessons learned from existing AO systems

Joint Session

The conference chairs of AS06 and AS07 anticipate that a number of papers on adaptive optics for giant telescopes will be relevant to both conferences. They expect to hold a joint session for these two conferences. Please indicate at the beginning of your abstract if your paper should be considered for inclusion in the joint session, whether submitting primarily to AS06 or AS07.

Abstract Due Date: 28 January 2002
Manuscript Due Date: 29 July 2002

Submission of Abstracts for Astronomical Telescopes and Instrumentation symposium

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Submissions imply the intent of at least one author to register, attend the symposium, and present the paper (either orally or in poster format).

Your abstract must include all of the following:

1. **SUBMIT TO:** AS06, WIZINOWICH
2. **SUBMIT EACH ABSTRACT TO ONE CONFERENCE ONLY** Adaptive Optical System Technologies II (AS06)
3. **ABSTRACT TITLE**
4. **AUTHOR LISTING** (principal author first)
For each author: First (given) name (initials not acceptable), Last (family) name, Affiliation, Mailing address, Telephone, Fax, and Email address.
5. **PRESENTATION**
Indicate your preference for "Oral Presentation" or "Poster Presentation." Final placement is subject to chairs' discretion.
6. **BRIEF BIOGRAPHY** (principal/presenting author)
Approximately 50 words.
7. **ABSTRACT TEXT**
Approximately 250 words.
8. **KEYWORDS**
List a maximum of five keywords.

Conditions of Acceptance

- **Authors are expected to secure registration fees and travel and accommodation funding, independent of SPIE, through their sponsoring organizations before submitting abstracts.**
- Only original material should be submitted.
- Commercial papers, descriptions of papers with no research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this symposium.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Government and company clearance to present and publish should be final at the time of submittal. Authors are required to warrant to SPIE in advance of publication of the Proceedings that all necessary permissions and clearances have been obtained, and that submitting authors are authorized to transfer copyright of the paper to SPIE.
- Applicants will be notified of acceptance by mail no later than 3 June 2002. Early notification of acceptance will be placed on the SPIE Web site the week of 29 April 2002 at www.spie.org/info/as

Paper Review

To ensure a high-quality conference, all abstracts and Proceedings of SPIE manuscripts will be reviewed by the Conference Chair/Editor for technical merit and suitability of content. Conference Chair/Editors may require manuscript revision before approving publication, and reserve the right to reject for presentation or publication any paper that does not meet content or presentation expectations. SPIE's decision on whether to publish manuscripts is final.

Instructions for Submitting Abstracts

All authors are **STRONGLY ENCOURAGED to submit their abstracts by the due date using the "submit an abstract" link on the Web at:**

www.spie.org/infolas

Using this method of submission ensures that your abstract will be immediately accessible to the conference chair for review. Using other methods of submission (listed below) will delay the processing of your abstract.

- or E-MAIL each abstract separately to: abstracts@spie.org in ASCII text (not encoded) format. IMPORTANT: to ensure receipt and proper processing of your abstract, the Subject line must include only the following:
SUBJECT: AS06, WIZINOWICH
- or MAIL your abstract to:
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SPIE, P.O. Box 10, Bellingham, WA 98227-0010 USA
Shipping Address: 1000 20th St., Bellingham, WA 98225 USA
- or FAX one copy to SPIE at 360/647-1445 (send each abstract separately).

Oral or Poster Presentation

Instructions for Oral and Poster presentations will be included in your author kit. All Oral and Poster presentations are included in the *Proceedings of SPIE* and require a manuscript.

Proceedings of SPIE

These conferences will result in full-manuscript Chair/Editor-reviewed volumes published in the Proceedings of SPIE. Correctly formatted, ready-to-print manuscripts are required from all accepted authors. Electronic submissions are highly preferred, and result in higher quality reproduction. Submission must be made in PostScript created with a printer driver compatible with SPIE's online Electronic Manuscript Submission system. Manuscripts must be submitted in English by 29 July 2002. Authors are required to transfer copyright of the manuscript to SPIE or to provide a suitable publication license. Papers published are indexed in leading scientific databases including INSPEC, Compendex Plus, Physics Abstracts, Chemical Abstracts, International Aerospace Abstracts, and Index to Scientific and Technical Proceedings.

Publishing Policy

Manuscript due dates must be strictly observed. Late manuscripts may not be published in the Proceedings of SPIE, whether the conference volume will be published before or after the meeting. The objective of this policy is to better serve the conference participants as well as the technical community at large, by enabling timely publication of the Proceedings. **Papers not presented at the meeting will not be published in the conference Proceedings**, except in the case of exceptional circumstances at the discretion of SPIE and the Conference Chair/Editors.

Participant Registration Fee

Authors, coauthors, program committee members, and session chairs are expected to register and pay the conference registration fee. If you are a current **SPIE Member** you will enjoy an additional discount on your symposium registration fee and on educational short courses.