

# Large Ground-Based Telescopes (AS04)

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

*Conference Chairs:* **Jacobus M. Oschmann**, Gemini Observatory; **Larry M. Stepp**, AURA, Inc.

*Program Committee:* **Jeffrey D. Barchers**, Air Force Research Lab.; **Xiangqun Cui**, Nanjing Astronomical Instruments Research Ctr. (China); **Matt Johns**, Carnegie Observatories; **Tetsuo Nishimura**, National Astronomical Observatory of Japan; **Lawrence W. Ramsey**, The Pennsylvania State Univ.; **Jason Spyromilio**, European Southern Observatory (Chile); **Joseph T. Williams**, Univ. of Arizona

Astronomy is in the midst of a revolution. Around the world, new observatories have begun operation with large, advanced technology telescopes, more than trebling the collecting area of large ground-based optical/IR telescopes in the last decade. Further gains will be made as additional large telescopes come on line in the next few years.

The new telescopes not only collect more light, they also produce better images. To remain competitive, existing facilities are responding with image improvement programs. As a result, ground based optical/IR telescopes are reaching levels of performance once thought possible only in space.

This conference provides a forum for presentation and discussion of the latest results from these large ground-based telescopes. Papers are welcome on all aspects of telescope design and construction.

Specific areas of interest include:

- reviews of major telescope projects
- new telescope designs
- enhancements to existing telescopes
- telescope enclosures
- telescope structures
- instrument rotators
- large mirror fabrication
- advanced mirror materials and structures
- alignment of large telescopes
- mirror coating, cleaning and stripping
- mirror support systems & active optics
- telescope thermal control
- seeing improvement
- telescope design for ir optimization
- chopping secondary systems
- automation of telescopes and support functions
- lessons learned in commissioning and operation

**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:** AS04, OSCHMANN, STEPP
2. **SUBMIT EACH ABSTRACT TO ONE CONFERENCE ONLY** Large Ground-Based Telescopes (AS04)
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.

## 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](http://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](mailto: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: AS04, OSCHMANN, STEPP
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- 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

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## 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.

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- 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](http://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.