

# **Call for Papers and Posters**

The 60<sup>th</sup> Annual Meeting

of the

**American Scientific Affiliation**

August 5–8, 2005

Messiah College

Grantham, PA 17027

## **ALTERNATE ENERGY RESOURCES,\* CONSERVATION AND THE ENVIRONMENT**

“But God made the earth by his power; he founded the world by his wisdom and stretched out the heavens by his understanding.” —Jeremiah 10:12

With Special Sessions Including:

- Technology: The Solution or The Problem?
- Appropriate Technologies for Third World Countries
- The Promise of Fusion Energy
- “Models for Creation: Intelligent Design and Evolution”

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\*Alternate Energy covers all non-fossil fuel resources such as: energy from biomass, geothermal, small hydro, solar, wind, the hydrogen economy, fusion energy and nuclear power.

**SUBJECT:** 2005 Call for Papers  
ASA Meeting, August 5–8, 2005

**FROM:** Ken Touryan, Program Chair  
Jack Swearengen, Assistant Program Chair

**TO:** All members

We welcome proposals for contributed papers and poster presentations on all topics related to science and Christianity, however, *priority will be given* to papers dealing with important and current research results in alternative energy resources, conservation and the environment, along with the topics of planned symposia as listed below.

**Abstracts should be postmarked no later than February 11, 2005.**

**Submission of symposia abstracts**

Submit one copy of your symposium abstract (see below) electronically to your session organizer, and one copy to the ASA office using the following website:  
[http://129.82.76.41:591/asa\\_presentations/applications.html](http://129.82.76.41:591/asa_presentations/applications.html)

**Submission of all other abstracts**

Submit one copy to the ASA office using the following website:  
[http://129.82.76.41:591/asa\\_presentations/applications.html](http://129.82.76.41:591/asa_presentations/applications.html)

**Planned symposia** sponsored by commissions and affiliations are:

**1. Technology: The Solution or the Problem**

For this session, technology will be understood in a broad interdisciplinary context: (a) skills, knowledge, and procedures for making and doing useful things; (b) a special form of knowledge that is compatible with science and controllable by the scientific method and producing some practical end; (c) the defining mark of human beings; and/or (d) the definitive characteristic of modern society. Papers for this Session should address topics such as how technology helps us fulfill the biblical mandates of dominion, stewarding, justice, caring, and healing. Unintended consequences, emergent properties, technology and economics, risk and risk management, and using technology to solve problems resulting from technology (such as energy supply) are also topics of interest.

Session Organizer: Jack Swearengen, Ph.D., 2255 Dancing Penny Way, Santa Rosa, CA 95403-8157. (707) 579-3168. [jcnlsweare@sbcglobal.net](mailto:jcnlsweare@sbcglobal.net)

**2. The Promise of Fusion Energy**

Papers addressing why Christian professionals should take a lead role in this area are particularly encouraged. The proponents of Fusion Energy, for example, point out how it has few of the liabilities of conventional energy sources. Because its prospects are very long-term, however, the promise of Fusion Energy sounds so “messianic” to its critics as to be incredible. Christians whose focus is on the true Messiah could bring a balanced perspective to such controversies.

Session Organizer: Robert Kaita, Ph.D., Plasma Physics Laboratory, Princeton University, PO Box 451, Princeton, NJ 08543-0451. (609) 243-3275. [Kaita@pppl.gov](mailto:Kaita@pppl.gov)

### 3. **Science and Appropriate Technologies for Developing Countries**

Christians in science and technology can respond in specific ways to the biblical commands to *help the poor* and have a profound impact on these children of God. In this session, we seek presentations that will provide vision and direction on how we can use our God given gifts and training in science and engineering to minister to the physical as well as spiritual needs of the poorest four billion people on Earth. Papers based on projects that result in a significant impact on a single village (deployment of existing technology) as well as projects that can impact a whole country (more technology development) are welcome.

Session organizer: Walter L. Bradley, Ph.D., P.E., Distinguished Professor of Engineering, Baylor University, One Bear Place 97356, Waco, TX 76798-7356. (254) 710-7370. [Walter\\_Bradley@baylor.edu](mailto:Walter_Bradley@baylor.edu)

### 4. **Models for Creation: Intelligent Design and Evolution \***

This symposium will discuss the strengths and weaknesses of two creation models: Intelligent Design and Theistic Evolution (Robust Formational Economy). Speakers sympathetic to both positions will clarify where these models agree with each other, where they potentially conflict, and where further work is necessary to determine which model best correlates with how God actually acts in nature. Basic questions such as the scientific nature of the ID model, ID's potential to benefit research, and the most significant evidence for ID and TE will be addressed.

The symposium will include an extended question and answer time with the panel of speakers in order to promote fruitful discussion of these issues.

Session Organizer: John A. Bloom, Ph.D., Professor of Physics, Director of the Master's Degree Program in Science and Religion, Biola University, 13800 Biola Ave., La Mirada, CA 90639. (562) 903-4861. [john.bloom@biola.edu](mailto:john.bloom@biola.edu)

\* Although this symposium is a plenary session with invited papers, consideration will be given to contributed papers in regular sessions.

**Please note:** Papers should be based on work in your area of expertise. Where this is not obvious, you may be asked to provide suitable documentation. Follow the **Requirements and Guidelines for Abstracts** given on the next page.

## Requirements and Guidelines for Abstracts

1. Regular contributions (papers and posters) must be submitted as abstracts of 300–350 words. Persons with access to the Internet are expected to use the on-line submission form available at [http://129.82.76.41:591/asa\\_presentations/applications.html](http://129.82.76.41:591/asa_presentations/applications.html). Those lacking access to the Internet may mail the **Program Response Form** to the ASA office: ASA, PO Box 668, Ipswich, MA 01938 by **February 11, 2005**.
  - A. The abstract should emphasize what is **new and important** in your presentation and contain as much **detail** of the work as possible within the 300–350-word limit. The abstract and the presentation should be intelligible and clear to non-specialists. If submitted by mail, the abstract must include the following information as a header: Name, Address, Phone Number, and Email address (if any.)
  - B. Undergraduate students, graduate students and early career scientists presenting papers or posters **must use** the on-line submission form.  
**Please note:** Your deadline is later— **February 28, 2005**.
2. Authors may present only **one** paper (with the exception of the symposia described on page two), but they may be included on other multiple-authored papers. All paper proposals will be reviewed and screened for quality and relevance. Limitations of program space may require some individuals submitting requests for an oral paper to present posters; the chair will notify such persons as soon as possible. Papers should be based on the author's area of expertise and experience, though exceptions may be considered for papers of exceptional creativity. Program limitations may require some papers or posters to be rejected, though these authors are strongly encouraged to attend the meeting, as discussions and friendship-building among attendees are highly valued.
3. Contributed oral papers will be accorded a time slot of 20 minutes, plus 5 minutes for discussion.
4. A separate time and space has been assigned for poster presentations. Authors of poster exhibits will be supplied with detailed instructions upon acceptance of their abstract.
5. To be included in the final program, **presenters must register** for the meeting when they receive the Registration Brochure.
6. Abstracts for all contributed papers and posters must be in the ASA office by **February 11, 2005**.

(Also, see 1. B above.)

## **Information on Scholarships for Christians in the Sciences and Engineering**

Dear students in the sciences and early career scientists,

If you are pursuing a degree in the sciences (social, natural or physical) or engineering, or are early in your career (first three years), we would like to introduce you to the American Scientific Affiliation. The ASA is an organization of over 1,700 Christians who are connected to science or engineering. Details concerning our mission and membership are found on our web site at <[www.asa3.org](http://www.asa3.org)>. The ASA publishes the quarterly journal, *Perspectives on Science and Christian Faith* and a bimonthly newsletter.

This is a formal invitation for you to participate in the ASA August 5–8, 2005, meeting at Messiah College, in beautiful south central Pennsylvania. The theme is “Alternative Energy, Conservation and the Environment.” Priority will be given to papers dealing with important and current research results in alternative energy resources, conservation and the environment, from a Christian perspective, along with the topics of planned symposia such as: Technology – the Solution or the Problem, The Promise of Fusion Energy, and Science, and Appropriate Technologies for Developing Countries (see the Call for Papers for details).

The annual meeting provides an opportunity to meet professionals in your field who share your faith in Christ, to participate in the symposia, paper or poster sessions, to give a paper or poster yourself, to network with other Christian students from a variety of colleges and universities, and to explore how to integrate your faith with your discipline. The meeting also promises to be great fun in a beautiful place. Outings and gatherings for emerging scientists, both planned and impromptu, will take advantage of the location. So, come join us!

If you are an advanced undergraduate student who has been involved in a significant research project, or a graduate or postdoctoral student ready to report on your work, or in the first three years of your career, this is an excellent opportunity to share your research with Christian colleagues. The presentation can be listed on your resumé as a paper presented at an international meeting.

A limited number of scholarships are available which cover room, board and registration for those presenting papers or posters. The ASA Council voted to allow recent, previous winners a second scholarship which would fund half their room, board and registration. This program starts with the Messiah College meeting. Guidelines for abstracts and scholarship applications are on the ASA web site <[www.asa3.org](http://www.asa3.org)>. For further information, contact the program chair below.

We encourage you to join with others in this exciting opportunity at Messiah College, Grantham, PA, August 5–8, 2005. Please fill out the form on the back of this page.

Sincerely,

*Ken*

Kenell Touryan, Ph.D.  
Program Chair for the 2005 ASA Annual Meeting  
E-mail: [Ken\\_touryan@nrel.gov](mailto:Ken_touryan@nrel.gov)  
Phone: 303.275.3009

**Application for Scholarship Aid**  
for the meeting of the  
**American Scientific Affiliation**

Undergraduate or graduate students, post docs, and scientists within the first three years of their careers planning to present papers (oral or poster format) may apply for scholarship aid. A limited number of scholarships are available that will cover room, board and registration.

To be considered for financial aid, mail this form to the ASA office (ASA, PO Box 668, Ipswich, MA 01938) immediately after submitting your abstract electronically. **Previous winners are eligible depending upon availability of funds.** Applications must be received by **February 28, 2005.** Scholarship recipients must join the ASA and plan to participate in the full meeting. ASA student membership is \$20; full membership is \$60 (US currency).

<b>YOUR INFORMATION</b>	<b>SUBJECT AREA OF YOUR PAPER</b>
Name: _____	Astronomy/cosmology: _____
Institution: _____	Biochemical/molecular: _____
Address: _____	Biological Sciences: _____
City, State, Zip: _____	Chemistry/physics: _____
E-mail: _____	Engineering and Technology: _____
Phone: _____	Environment: _____
Home address: _____	Geology: _____
City, State, Zip: _____	Origins Issues: _____
Home e-mail: _____	Science and Religion: _____
Home Phone: _____	Psychology: _____
Field of Study: _____	Other – specify: _____

Please indicate your career status:

- ☐ Undergraduate                      ☐ Graduate                      ☐ Post Doctorate
- ☐ Early Career please specify (e.g., professor, researcher, etc.)

Title of your paper: \_\_\_\_\_

Preferred format (check one)

- ☐ Oral presentation (abstract and scholarship application due February 28, 2005)
- ☐ Poster presentation (abstract and scholarship application due February 28, 2005)

If you are a student, your department chair or major professor **must** sign below.

I affirm that the above information is correct and that the above-named individual is a full-time student.

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Name (printed or typed): \_\_\_\_\_ Date: \_\_\_\_\_

\*see <[www.asa3.org](http://www.asa3.org)> for information about the ASA and for a membership application.

Only people **without** internet access should use this form

## PROGRAM RESPONSE FORM

Name: \_\_\_\_\_  
(Title) (First) (Middle) (Last)

Address: \_\_\_\_\_

City: \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

I can be reached by phone: \_\_\_\_\_  
(Work) (Home)

E-mail address: \_\_\_\_\_  
@  
(please type or print clearly)

Proposed Title or Topic: \_\_\_\_\_  
(please type or print clearly)

Preferred mode of presentation: Platform paper \_\_\_\_\_ Poster \_\_\_\_\_

If your presentation is to be considered for part of a special session, symposium, or panel, indicate which one: \_\_\_\_\_

Special audio visual equipment needs (if any): \_\_\_\_\_

Please prepare your 300–350–word abstract following the  
**Requirements and Guidelines for Abstracts.**

**Mail to:**

American Scientific Affiliation  
PO Box 668  
Ipswich, MA 01938-0668

by February 11, 2005

American Scientific Affiliation  
PO Box 668 ~ 55 Market St  
Ipswich, MA 01938

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CALL FOR PAPERS ~ Deadline: Feb 11, 2005  
Messiah College, Grantham, PA  
ASA Annual Meeting ~ August 5–8, 2005

### **Future Meeting Dates**

Calvin College  
Grand Rapids, MI  
July 28–31, 2006

Edinburgh Scotland  
August 3, 4 and 5, 2007