

NEWSLETTER

of the
American Scientific Affiliation &
Canadian Scientific & Christian Affiliation



Volume 45, Number 6

NOV/DEC 2003

The Heavens Declare the Glory of God! 2003 Annual Meeting of the ASA

Margaret Gray Towne

A note received recently from an attendee at the 2003 Annual Meeting stated:

Wasn't the ASA conference mind-boggling? It helped increase my sense of God's majesty and omnipotence. I have shared more about some of the "specifics" of this conference than ever before.

Along with the awesome content presented by gifted scholars, those of us who attended the July meeting were also amazed and enriched by the many interesting people in attendance. Let me introduce you to a few.

Anuj Kalsy is a senior at Messiah C. studying biochemistry and wants to do



Anuj Kalsy

a Ph.D. in tumor immunology. He was awarded a scholarship to attend the meeting. Anuj said he enjoyed the dialogue and how people integrated

faith and science and compared ideas. Since he's very interested in the role Christians play in bioethics, one of his favorite presentations was on bioethics and stewardship.

Gwen Schmidt, a doctoral student in cognitive neuroscience at Colorado State U. and pastor's wife, when interviewed, said: "I feel like I've come home. I feel affirmed. Being in science is a valid calling."

This was **Amy Mueller's** first annual meeting. Originally from Nebraska, she attended the Air Force Academy for two years and received a bachelors degree in biology from U. of Colorado and a BA in Education and MS in Botany from the U. of Wyoming. She has spent eleven years in Quito, Ecuador teaching biology to missionary children. Did you know that ASA gives free memberships to missionaries in foreign fields who are under a mission board?

Attendee M. J. Ponnambalam found out about ASA through *Research News and Opportunities*. Originally from India, he received his PhD from the Illinois Institute of Technology. He is a physics prof. at the U. of West Indies in Jamaica and has also lived and taught in Nigeria. Having been born into a Christian family, he noted that as he went on to the university, colleagues tended to drop away from God and be less religious. He said it was "sad to see them going up intellectually and down spiritually." He searched for those who could help him maintain his faith as he journeyed through academia. This is one of the ministries ASA members have in higher education. He said: "I want to be hot on God and hot on science!"

Leslie Wickman has been at Azusa Pacific U. for 3 years and is the director of their Center for Research in Science. She has a BA from Willamette U. in political science, an MS in aero-astro-engineering and a PhD from Stanford. Her doctoral research centered on planetary exploration. She has worked on

NASA projects with Lockheed Martin, such as the Hubble Space Telescope and the International



Leslie Wickman

Space Station Program. While there, Leslie went through the astronaut training program (scuba/watertank training, over 100 hours in space suit simulations, parachute experience) and earned a pilot's license. Leslie described herself as a visitor, looking us over. She learned about ASA when a colleague gave her our *Newsletter*.

Daniel Kirchofer, who has a doctorate in toxicology from the Swiss Federal Institute of Technology in Zurich and is a biochemist in cardiovascular and cancer research, attended his first ASA Annual Meeting in 2002 at Pepperdine U. He said he got "re-energized, stimulated, and filled up" so planned his family vacation this year around the Denver event. He said it was everything he had hoped it would be.

At Saturday devotions, we sang the hymns "Fairest Lord Jesus" and "Holy, Holy, Holy! Lord God Almighty." These verses jumped out:

Fair is the sunshine, fair is the moonlight,

And all the twinkling, starry host.

*Jesus shines brighter, Jesus shines purer
Than all the angels heaven can boast.*

*Holy, Holy, Holy! Lord God Almighty!
All Thy works shall praise Thy name
In earth, and sky, and sea.*

Photo courtesy <http://shai.apu.edu/crist/>

Photo courtesy Margaret Gray Towne

The Executive Director's Corner

Donald W. Munro

Once again the holiday seasons are approaching. The extensive commercialization of the season makes it harder to concentrate on thankfulness in late November and the celebration of Christ's birth in late December. Not much is mentioned about each in the stores as they try to sell us cards, decorations, gifts and so much more. There is the magic of family get togethers for those of you who have your families within traveling distance. I want to especially remember those ASAers who may find this one of the lonelier times of the year and wish God's ever present comfort to you.

Judy Toronchuk has recently prepared the call for papers for the Trinity Western U. meeting this coming summer, July 23–26, 2004. If you haven't already received it, you should soon. You can tell from the plans included how informative this meeting will be. Please plan to give a poster or paper or just come and be a part of the excitement and fellowship. And speaking of fellowship, don't forget to sign up for the great Canadian Rockies trip following the meeting. The reservations are drifting in. It's a great way to celebrate an anniversary or a milestone in your career, or a chance to get away and commune with other Christians in sci-

The *Newsletter of the ASA and CSCA* is published bimonthly for its membership by the American Scientific Affiliation. Send *Newsletter* information to the Editors: David Fisher, 285 Cane Garden Cir., Aurora, IL 60504-2064. E-mail: dfisher@twr.org and Margaret Towne, 8505 Copper Mountain Ave., Las Vegas, NV 89129. E-mail: TowneMG@aol.com. Both editors receive e-mail through asan@asa3.org

Please send Canadian matters to: CSCA, P.O. Box 40086, 75 King St. S., Waterloo, ON, Canada N2J 4V1.

Send address changes and other business items to the American Scientific Affiliation, P.O. Box 668, 55 Market St., Ipswich, MA 01938-0668. Phone: (978) 356-5656; FAX: (978) 356-4375; E-mail: asa@asa3.org; Web site: www.asa3.org

©2003 American Scientific Affiliation (except previously published material). All rights reserved.

Editors: David Fisher, Margaret Towne
Managing Editor: Lyn Berg

ence. There is also time for shopping, sightseeing, and some meals on your own. The pace is leisurely, just like a vacation should be.

Below are the 26 names of those who joined ASA twenty-five years ago in 1978 and are still active members. This was close to the time when we had the fire in our office building and lost most of the records. I hope that my research has developed an accurate list. Congratulations to each of you on your 25th year of membership—**Bryce A. Babcock, Edward M. Blight, Jr., Lynn A. Braband, Laurence G. Cool, Del Coon, Georgia C. Eizenga, Don E. Erling, Robert S. Evatt, Harry H. Gibson, Jr., Fred J. Hickernell, J. Todd Hoeksema, Jay L. Hollman, Bruce J. Hrivnak, Carey Johnson, Glenn C. Joy, David E. Laughlin, Robert Kaita, Richard J. Mawhorter, Jr., Gary M. Michal, Ernst U. Monse, George L. Murphy, Alan C. Tjeltvelt, Timothy S. Ungermann, Dennis A. Wagner, Bryan D. Webb and Chuk-lam Yuen.** Perhaps you and others who celebrated anniversary years could consider a special gift to ASA in order to see us through this year. We would greatly appreciate that.

Texas and Oklahoma seem to be blossoming with ASA camaraderie thanks to **Timothy Chen** and **Scott Robinson**. Tim and Scott both coordinate separate ASA local meetings in their respective locations (Dallas area and Houston area.) Tim generally has his group meet for lunch on a Saturday at a Chinese Jumbo Super Buffet (\$6) and then after lunch they drive to his home in Arlington, TX for a meeting where they discuss the articles in the most recent *Perspectives on Science and Christian Faith*. That seems like a great agenda that people in other territories could follow.

Scott sends out an ASA Oklahoma-Texas Section e-newsletter with tidbits of information about local ASA/Templeton Lecture Series, prayer requests, and local meeting announcements including Tim's gathering. Scott's group generally meets the second Saturday of

every odd-numbered month. They often go to a pizza restaurant in Houston and then to Scott's home for a discussion on some science/faith topic. Wouldn't it be wonderful if we could get other sections going around the country? It takes a little extra effort and a firebrand like Tim or Scott. If I can be of any help, let me know. We can tell you who your local members are; just give us the locations you want. The first few meetings might be small but if you don't become discouraged, things build.

The ASA has a number of pressing needs for which we pray that ASA members can help us beyond their usual donations. We still desperately need a letter folding machine (up to \$2,500); a network power back-up battery (\$125); two surge protectors (\$60 each); photo scanner (\$200); software upgrades (\$1500); and a lightweight lap top computer (\$1800). We need to find volunteers or generate funds to hire people who can program our database, manage our network, and do graphic design for upcoming projects. Roman would like to add eight pages to the journal so that the backlog of articles can be published. These pages cost at least \$500. If you are thinking really big, the Lay Education Committee needs \$200,000 to prepare the video for the new series being written for Sunday School, home schoolers and Christian schools. The present dues and donations are hard pressed to cover our fixed costs and never allow expansion. Once again we sincerely and graciously thank those of you who have helped us with such projects in the past.

Soon most of you will be receiving your membership renewal. Membership dues have stayed the same for the last seven years. To keep them from rising, I entreat those of you who can possibly do so to include a generous contribution with your dues payment. Thank you so much for whatever you can do.



Affiliation of Christian Biologists

Marilyne Flora



Marilyne Flora

Approximately twenty biologists met at the annual meeting in July to discuss the status of the Affiliation of Christian Biologists (ACB) and its members. Due

to the efforts of several members, **Dick Wright's** *Biology Through the Eyes of Faith* has been republished in a new edition. This book is widely used in Christian college biology programs.

At next year's annual meeting at Trinity Western U. in Langley, British Columbia (July 23–26), we are looking forward to a biology field trip planned by **David Clements** and a symposium on concerns of teaching biology. Be thinking about how you could contribute to this symposium. Write a short paper on finding grants, research in the small college, involving students in research, keeping track of/mentoring graduates, special courses taught, integrating science and faith or whatever might be of interest to others. E-mail me (msflora@comcast.net) with ideas and contributions. A possible paper on the history of biology by **Harry Cook** was suggested.

Uko Zylstra of Calvin C. has volunteered to restart the newsletter. It will be sent out through the biology list-serv. If you have contributions, e-mail him at zylu@calvin.edu

I volunteered to stay in a leadership position and keep ACB going. I would

Newsletter Disclaimer

This publication is a newsletter. As such, its purpose is to present news spanning a spectrum of activities, reports, and publications in order to keep readers abreast of a variety of events and views. Just as newspapers report statements made by people of various viewpoints and opinions without endorsing them, inclusion in this newsletter does not constitute or imply official ASA endorsement.

love to hear from any of you with ideas and directions. Hopefully, next year we can hold another election, so send me nominations or volunteer for a position.

Of Interest

• Should prisoners receive organ donations? This question was triggered when a California prisoner serving a 14-yr. sentence received a heart transplant and a convicted murderer on death row was deemed eligible for a kidney transplant. What is right and what is wrong? Arthur Caplan, a bioethicist at the U. of Pennsylvania and author of the book *Ethics and Organ Transplants*, says: "If we want to exclude all sinners from access we won't have a problem of who to give organs to because there'll be no waiting list." (For further discussion, see *Research News and Opportunities in Science and Theology* [July/Aug 2003]: 7).

• America is facing a critical organ shortage. Each day, approximately 16 patients die waiting to receive an organ. Approximately 80,000 people are waiting for organs and only about 20,000 are available. To address this growing shortage, several biotech companies are developing animals as potential sources of organs for humans. This is called xenotransplantation and encompasses many ethical issues. For some it offers great hope. Others feel it is a mistreatment of animals. Also, there is concern that harmful viruses could be transmitted to humans. According to Dr. Alix Fano with the Campaign for Responsible Transplantation: "Viruses ... could lay dormant for decades and then resurface later, creating a new global pandemic akin to AIDS."

• SARS has had an influence on the church. The Baptist World Alliance, whose annual Youth World Conference was scheduled for July in Hong Kong postponed it for one year. The alliance also moved its annual July meeting from Seoul to Rio De Janeiro. Calvin C. canceled a May–June study program to China and seven summer internships there. By fall it appeared that the SARS

outbreak was waning. Shoppers and tourists were numerous in Beijing and no one was wearing surgical masks. Medical experts remain alert as so little is known about SARS—its origins, the role of animals in its transmission, and how likely it will return.

• Counterbalance Foundation has produced a CD-ROM: "The Meta-Library: Interactive Resources on Science and Religion," which includes all the topics and media currently available at their site but with higher quality video and audio. Adrian Wyard, Counterbalance Foundation (www.counterbalance.org)

• *Encyclopedia of Science and Religion* has been published by Macmillan Reference USA in May 2003. Wentzel van Huyssteen, Princeton Theological Seminary's James I. McCord Professor of Theology and Science, was the editor-in-chief. This two volume, approximately 900-page effort is amazingly thorough with 529 entries and articles, and includes 440 scholars from around the world, some of them ASA members. It addresses all aspects of the dialogue between the sciences and the world's religions, and is directed at students and their teachers. It reaches far into the humanities as well as into the physical sciences and technology. Also, controversial issues such as human cloning and stem cell research are examined along with more traditional questions such as the origins of life, the nature of sin, and the philosophy of science and religion.

Links to Science and Religion Web Sites

These links supplement the original list in the July/Aug 2003 *Newsletter*.

www.theistic-evolution.com

Authored by **Carl Drews**

www.theistic-evolution.net

Authored by Phillip Jones

www.meta-library.net

New Counterbalance site covering many topics

www.berea.edu/SpecialProjects/scienceandfaith

Bob Schneider, Berea C.

✉ **Carl Drews and Robert Schneider**

Polkinghorne Visits Princeton Seminary

Howard L. West III

Enchanting stories still circulate around Princeton Seminary about how Albert Einstein walked through the seminary campus on his way to his office about a half century ago. Many in Princeton are still fascinated with the enigmatic relationship between science and theology. In March this relationship continued with the 2003 Warfield Lecture Series “Trinitarian Perspectives—Science and Religion in a Theological Context” presented by Rev. Dr. John Polkinghorne.

Polkinghorne is no stranger to Princeton and has the rare distinction of being invited to Princeton first as a scientist and research fellow in physics at the Institute for Advanced Studies in the early 1960s and later as a priest and guest theologian at the seminary’s Center for Theological Inquiry in the 1990s. Polkinghorne, who was president of Queens’ C., Cambridge U., as well as prof. of mathematical physics, is also an Anglican priest who has served as Canon Theologian of Liverpool Cathedral.

Many of my seminary classmates and I were eager to listen to his lectures after reading his book *The Faith of a Physicist*. Polkinghorne has written several other significant books as well. He gave five individual lectures and I will include high points of several here.

After a succinct reminder that “no simple rubric exists for organizing science and theology,” Polkinghorne noted that even B. B. Warfield, who donated the Warfield lectureship and whose name is often associated with the 19th-century pre-fundamentalist school of “Princeton Theology,” stated that “one will not find any clear statement in the Bible that need be opposed to evolution.”

Polkinghorne moved into a celebration of the intensified dialogue between science and religion that has occurred since Einstein’s days at Princeton. This

dialogue, he emphasized, has allowed scholars to find many exciting new continuities and discontinuities between science and religion that are more informative than confrontational. He emphasized that advances in quantum physics and new revelations arising from chaos theory and anthropic reasoning have allowed science and theology to share, more than ever before, a common realization that the truth about the universe and God is both revealed and veiled at the same time.

In his lecture on the role of Scripture, Polkinghorne reminded us that the Bible is a “library, not just a book,” written by a tremendous chorus of voices that spanned over a thousand years and a myriad of foreign cultures. Reminiscent of his opening comments about scientists’ awareness of the complexities and subtleties of the universe, he emphasized that while Scripture plays valuable evidential, spiritual, and contextual roles, one must also remember that such roles and their underlying truths are interwoven within a complex and subtle web of historical-cultural

contexts. Likewise, while he believes Scripture was divinely inspired, he reminded us of the all too common mistake of those who believe that Scripture was “divinely dictated.” As such he emphasized that one must read the Bible both in its entirety and as a living document with observable trajectories of truth. Polkinghorne pointed out that those who acknowledge these complexities and subtleties with the interpretive guidance of the Spirit of Truth (the Holy Spirit), have interpreted and will continue to re-interpret Scripture in creative ways that preserve liberating truths after shedding anachronistic historical-cultural elements.

Polkinghorne concluded his final lecture by emphasizing how an eschatological understanding of creation and the end of the universe, although revealed in Scripture, is only possible as an act of faith. Such an understanding reveals a two-step creation process beginning with the created universe as we know it and continuing in a second creation that began in the resurrection of Jesus Christ. As such, the second

Early Career Scientists Report on Field Trip: “The Earth Has a History”

Corrie Lambrecht and Stephen Bracht

This field trip at the 2003 Annual Meeting was a geology tour of the Red Rocks area and the Dinosaur Ridge near Golden, CO. We found it to be very interesting and informative. Our main guide was Thomas Bidgood, asst. prof. of physical science at Colorado Christian U. Another gentleman was also there from the USGS who offered his knowledge as well. It was neat to meet so many Christians from different scientific backgrounds on the tour.

We spend our summers in northern New Mexico which is a very geologi-

cally rich area, so it was interesting to see the geology around the Denver area and how it compares to northern NM. We heard about the history of the area and how the different geological formations formed.

Our favorite part of the trip was the Dinosaur Ridge area. We saw dinosaur bones and other evidences. The tracks were truly amazing and well preserved. Overall it was really fun and interesting.



Red Rocks, Morrison, CO

Corrie and Stephen are seniors majoring in astrophysics at New Mexico Institute of Technology. They work at the Los Alamos National Laboratory’s Fenton Hill Observatory during the summers.

creation, although already revealed in Christ and veiled to science, will be fully realized after scientists' predicted end of all carbon-based life and the cosmos as we know it. Taking this into consideration, Polkinghorne strongly emphasized that Christians and the Church must embrace and proclaim this good news of a second creation. By doing so, the Christian community can maintain a "credible theology" that acknowledges science's dismal cosmic forecast while also offering a meaningful hope that extends beyond what appears to be a meaningless end of the universe and creation as we know it through science.

My colleagues and I can honestly say that these lectures had a profound impact upon our theological formation and were equivalent to taking another class!

Howard West is a 2004 M.Div. student at Princeton Seminary and a candidate for ordained ministry in the Presbyterian Church (USA). He has a B.A. in East Asian/Chinese Studies from Penn State U. and a M.Ed. in Cross-cultural Counseling/Educational Psychology from the U. of Pittsburgh. After seminary, he hopes to serve in a congregational setting where he can focus on pastoral care, congregational health, and cross-cultural ministry.

ASAers in Action

• **Lawrence Starkey**, long-time ASA Fellow with membership dating back to 1954, was honored six years ago in *Who's Who in the World*. Recently it was announced that he has been included in the forthcoming *Great Minds of the 21st Century* published on a merit basis only by the American Biographical Institute. Starkey was philosophy editor for *Encyclopaedia Britannica* 1968–1972 and is a synoptic thinker, balancing studies and contributions in philosophy, theology and the sciences, with special focus on science/religion issues. He has alternated professional appointments with an ancillary career in engineering writing and design with General Motors, General Dynamics and Concord. He has had direct pioneering developments in streamliners, radar, facsimile, moon rockets, nature films, particle physics, and no-till agriculture.

• **Paul Arveson**, physicist, is a volunteer in the clinical trial to determine if selenium and/or Vitamin E can prevent prostate cancer. He located the nearest clinic where he could participate (George Washington U. Hospital), made a visit, signed consent forms, and was issued a bottle of capsules which contain a placebo or one or both of the active substances, he doesn't know which. Paul will take these capsules regularly while his health is monitored for eleven years. He goes to the clinic twice a year for a simple checkup and blood test. If, at the end of the study, a clear benefit is noted, then a new way to prevent prostate cancer will have been found. Paul says:

As educated people, I don't think it is hard for us to be convinced that the potential benefits of participation in a clinical trial are high and the risks are relatively low.

There are thousands of trials in search of volunteers. Some are sponsored by NIH, some by industry, and some by other organizations. Each has its own protocol, monitoring sites, and other details. All of this information is on the web site: www.clinicaltrials.gov/

• **Ian Hutchinson** has been named head of the Department of Nuclear Engineering at MIT. He is a recognized expert on the entire range of fusion related issues, including macroscopic MHD equilibrium and stability, radio frequency heating, plasma transport, plasma wall interactions, and the whole gamut of experimental diagnostics. Ian is the author of a widely used graduate textbook on plasma diagnostics and has been honored as a teacher numerous times. He states:

I see this new role as a God-given opportunity to serve colleagues and students and perhaps to influence for good the future of nuclear science and nuclear energy. I intend to continue the research and teaching I love, though at a somewhat more constrained level. My involvement in the Faculty Christian Fellowship and the Graduate Christian Fellowship will remain important sources

of spiritual strength and direction for me.

See www.psfc.mit.edu/people/hutch/

• **Karl Giberson** has been named editor-in-chief of *Science and Spirit*, a bimonthly magazine that explores the many dimensions of science and faith integration. Karl continues as editor of *Research News & Opportunities* and as a prof. at Eastern Nazarene C. (ENC) in Quincy, MA where, since 1984 he has

Welcome, New Members! August–September, 2003

Alicea, Stephanie –Middletown, NY
Alkema, Harry –Burlington, ON
Canada
Angell, Sarah E. –Clinton Corners, NY
Berel-Harrop, Sarah –Houston, TX
Bowe, Eric –Phoenixville, PA
Castro, Andrea –Reading, PA
Collier, William B. –Tulsa, OK
Covey, Theodore D. –McLean, VA
Dahlstrom, Aaron D. –King of Prussia, PA
Day, Justin T. –Newburg, OR
Fesmire, Vince –Castle Rock, CO
Fortna, Terri –Quarryville, PA
Goodreau, Bruce H. –Romeo, MI
Kinsey, Rae –Hanover, PA
Kinyua, Janet –Paoli, PA
Kumar, Poornima –Jeffersonville, PA
Lanoie, Linea R. –Prince Albert, SK
Canada
Livingston, Stephanie R. –Hillsboro, OR
Marks, Michael –Maumelle, AR
Martinez, Emily Lou –Gresham, OR
Mathews, Frank S. –Golden, CO
Mellon, Jim –Wayne, PA
Mills, Nathan –Searcy, AR
Nater, Michelle –Philadelphia, PA
Patterson, Gary D. –Pittsburgh, PA
Roth, Christopher J. –King of Prussia, PA
Schwartz, Michelle A. –Canby, OR
Scott-Miller, James R. –Omaha, NE
Shrier, Paul –Azusa, CA
Stevens, Anne M. –Anchorage, AK
Tavani, Jr., N. J. –Haymarket, VA
Taylor, Philip G. –Port Deposit, MD
Tentindo Repond, Silvia C. –Wheaton, IL
Towne, Silas A. –Prineville, OR
Transburg, William –Dar es Salaam, Tanzania
Tshudy, Dwight J. –Webster, NY
Watts, Jonathan, K. –Montreal, QC
Canada
Watts, Chris K. –Dartmouth, NS
Canada
Yego, Cheumo –Sanatoga, PA

taught physics, philosophy, astronomy, the history of science, and since 1996, a course he developed, "Issues in Science and Religion." In addition, he is the director of the Science and Religion Summer School at the Ettore Majorana Centre in Sicily. Karl has a B.S. in physics/math and a B.A. in philosophy from ENC and earned M.A. and Ph.D. degrees in physics from Rice U.

• **Jennifer Wiseman** has started a new position at NASA Headquarters in Washington, DC. She is a "Discipline Scientist and Program Manager" in the NASA Office of Space Science, Physics and Astronomy Division. Jennifer is

working with the oversight and management of astronomy and physics missions such as the Small Explorer Satellite Program and the Hubble Space Telescope. She is more involved with the bigger picture of science policy and oversight and is grateful to the Lord for this opportunity.

• **Robert Fay**, prof. of chemistry at Cornell U., and co-author John McMurry, have seen their textbook *Chemistry*, published by Prentice Hall, come out in its 4th edition this year. This general chemistry text is used by colleges and universities throughout the US, Canada, and Britain. Fay teaches a graduate

course that focuses on chemical applications of group theory titled "Advanced Inorganic Chemistry: Symmetry, Structure and Reactivity."

• **Jeff Addicott**, law prof. at St. Mary's U. School of Law, San Antonio, TX, recently published an article in the *Ohio State Law Journal* titled "Storm Clouds on the Horizon of Darwinism: Teaching the Anthropic Principle and Intelligent Design in the Public Schools." He also presented this paper at the law school to students and peers in a lecture sponsored by the St. Mary's Christian Legal Society.

Job Postings

For descriptions of job postings, visit the ASA web site, www.asa3.org. At press time, these included:

Biology: Roberts Wesleyan C.; **Chemistry:** Westmont C., Eastern U.; **Environmental Studies:** Dordt C.; **Genetics/Cell/Molecular Biology:** Bethel C.; **Physics:** Roberts Wesleyan C.; **Secondary Science Ed.:** Calvin C.

ASAer in Print

The common prevailing view of conflict between evolutionary theory and Christian faith is a false caricature. In reality, many evangelical Christian scientists and theologians have responded positively to evolutionary ideas since the time of Darwin. **Keith B. Miller** has edited *Perspectives on an Evolving Creation* (Eerdmans, 2003), which brings this Christian reflection up to date and takes a relatively comprehensive look at the current science of evolutionary theory from an articulated orthodox Christian perspective. It includes scientific evidence as well as informed theological discussion. Contributors represent a wide variety of disciplines—biology, genetics, geology, paleontology, astronomy, cosmology, philosophy, theology, and the history of science.

The book is divided into three sections. The first part provides the needed biblical, historical, and scientific context for the discussions that follow. The second part lays out the scientific evi-

OPPORTUNITIES: Call for Papers and Submissions

• International Christian Studies Association is calling for papers in "Science and Religion: The Missing Link" for their ICSA VI World Congress at Pepperdine U. in Malibu, CA, July 30–Aug. 1, 2004. Abstracts are due **Jan. 1, 2004**. For more information, e-mail **Oskar Gruenwald** og@JIS3.org or call (626) 351-0419 or see www.JIS3.org

• The *Journal of Interdisciplinary Studies* (an international journal of interdisciplinary and interfaith dialogue) is calling for papers on the topic "Can the Market Be Moral?" for vol. XVI, no. 1/2, 2004. Manuscript deadline is **Jan. 1, 2004**. For more information, contact *JIS* Editor, **Oskar Gruenwald**, 1065 Pine Bluff Drive, Pasadena, CA 91107.

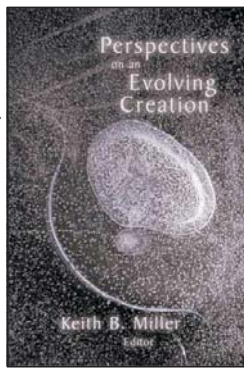
• The ASA, CSCA, and CiS will meet July 23–26, 2004 at Trinity Western U. in Langley, BC. They welcome proposals for contributed papers and poster presentations on important and current research results in neuroscience, Christian environmentalism, medical bioethics, evolutionary psychology, and sociobiology. Abstract deadline is **Jan. 30, 2004**. Students and early career scientists are encouraged to submit abstracts. Their deadline is **March 3, 2004**. See www.asa3.org for details.

• Beginning with the 2004 issues, *Perspectives on Science and Christian Faith* will include a new section, publishing submissions that integrate art, science and faith. Submissions must be original, previously unpublished, and can be in the form of poetry, music, drawings, cartoons, photography, short prose, or meditative thoughts. Submissions must show some relationship between science and Christian faith.

Guidelines for submissions. Submissions must be sent to the editor with a cover letter indicating that the submission is intended for the "Art, Science, and Faith" section. All submissions must have a title. Submissions with text must be less than 200 words. Photographs and artwork must be black-and-white or grayscale; colored artwork, photographs, or slides cannot be accepted. Three copies of each submission must be on single sheets of plain white paper and one copy must be in digital file form (Word document for text files, JPG or TIFF for artwork), sent on a PC-formatted floppy disk or as an e-mail attachment. Submissions will be peer reviewed prior to publication.

Roman J. Miller, Editor of *PCSF*
millerj@rica.net
4956 Singers Glen Road
Harrisonburg, VA 22082

dence for an evolving creation. Specialists in a variety of fields summarize how the current evolutionary view of cosmic, Earth, and biological history was constructed.



The last part focuses on the philosophical and theological issues commonly raised in connection with evolution. Issues such as the nature of God's creative activity, the meaning of the miraculous, the uniqueness of humankind, the basis for creation care, and the origin of sin are addressed with seriousness and sensitivity. Woven throughout are short meditations designed to direct the reader toward worshipping the God of providence.

Coming Events in North America

- **Templeton/ASA Lecture Series** announces some of its upcoming free lectures. For contact information, e-mail Don Munro: don@asa3.org
- Nov. 6.** "Science Stumbles on Design," Michael Behe, Princeton U., Princeton, NJ
- Nov. 6.** "Fabricated or Fabulous Human? Human Genetics and the Christian Wisdom Tradition," Celia Deane-Drummond, St. Mary's U., Halifax, NS, Canada
- Nov. 7.** "Creating and Shaping Future Children," Cynthia B. Cohen, Millennium Biltmore Hotel, Los Angeles, CA
- Nov. 18.** "Works of Love: Science and Altruism," Stephen Post, Grove City C., Grove City, PA
- Jan. 30.** "Spirituality and Health: A New Paradigm," Christina Puchalski, Catholic Theological Union, Chicago, IL
- Jan. 31.** "A Theological Perspective on the New Paradigm of Spirituality and Health," James Wiseman, Catholic Theological Union, Chicago, IL
- Mar. 4.** "The Big Bang, Stephen Hawking, and God," **Henry F. Schaefer III**, Princeton U., Princeton, NJ
- **Nov. 1-4.** International Conference on Process Thinking and Educational Reform in an Era of Globalization, Claremont, CA. www.ctr4process.org/Events/CPSEvents.htm
- **Nov. 6.** "Religion, Spirituality & Medicine: History, Research & Clinical

Implications," Lynchburg, VA. E-mail: randal.Walton@centrahealth.com

- **Nov. 6-9.** "Toward a Free and Virtuous Society," North Bend, WA. www.acton.org/tfavs
- **Nov. 7.** The Christian Fellowship of Human Geneticists will meet at noon in the Los Angeles Convention Center during the annual meetings of the American Society of Human Genetics to discuss religious and ethical issues in the field. We welcome ASA members and friends and would appreciate the names and e-mail addresses of others you think may be interested in this and future meetings. Contact **V. Elving Anderson** at ander087@umn.edu
- **Nov. 7-9.** "Flourishing: What Can the Sciences & Philosophy Learn from Each Other?" Brattleboro, VT. www.marlboro.edu/~nweiner/ethics
- **Nov. 11.** Metanexus Institute on Religion and Science continuing education for clergy, "The Stem Cell Debate: Divining Truth," Kevin Powell, Philadelphia, PA. www.metanexus.net or call Andrew Rick-Miller, 215-789-2200.
- **Nov. 13-15.** "Ethics of Biotechnology: Viewing New Creations through Anabaptist Eyes," Eastern Mennonite U., Harrisonburg, VA. E-mail: dossc@emu.edu
- **Nov. 14-15.** 48th Annual Archaeology Conference, "Tell Dothan: 1953-2003; The Emerging Portrait of a Biblical City," Wheaton C., Wheaton, IL www.wheaton.edu/theology click "Conferences."
- Canyon Institute for Advanced Studies, Grand Canyon U., Phoenix, AZ, announces its upcoming lectures. Each lecture will be at 7 PM in the Williams Building Lecture Hall. E-mail: clas@grand-canyon.edu; www.canyoninstitute.org
- Nov. 17.** "Genes, Genesis and God," Holmes Rolston III
- Jan. 22.** "Finding a Footing on a Slippery Slope: An Examination of the Ethics of Embryo Cell Research," Michael Mobley
- Feb. 5.** "Biocultural Evolution in the 21st Century: The Evolutionary Role of Religion," Billy Grassie
- Mar. 25.** "Conflicts and Confederacies between Mathematics and Christianity: Parables for Our Road Ahead in Science and Technology," Bruce Lundberg
- Apr. 15.** "Interpersonal Forgiveness: Forgiving for Life." Douglas Kelley
- **Nov. 22-25.** AAR/SBL Annual Meeting, Atlanta, GA. "Meeting of the Open and Relational Theologies," www.aarweb.org; E-mail: tjoord@nnu.edu

- **Dec. 2.** "The Humanity of Science: Science and Spirit after the 20th Century." New York. E-mail: cssr@columbia.edu; www.columbia.edu/cu/cssr
- **Dec. 3.** Liberal Theology and Creative Process: Bernard Meland and the Chicago School of Naturalistic Empirical Theism, Claremont, CA. E-mail: events@ctr4process.org; www.ctr4process.org/
- **Dec. 27-31.** InterVarsity Christian Fellowship's Student Missions Convention, U. of IL., Urbana, IL. www.urbana.org
- **Jan. 14-17.** 3rd Annual International Whitehead Film Festival, Claremont, CA E-mail: events@ctr4process.org; www.ctr4process.org
- **Feb. 12-13.** St. Francis International Center for Healthcare Ethics: International Bioethics Conference, Honolulu. www.bioethicshawaii.org
- **Feb. 12-17.** AAAS Annual Meeting and Science Innovation Exposition, Seattle www.aaas.org/meetings
- **Apr. 23-28.** The International Conference on Science and Consciousness, Albuquerque, NM. E-mail: message@bizspirit.com; http://bizspirit.com/science
- **May 27-29.** Third North American Multidisciplinary Conference: Spirituality and Health, Calgary, AB, Canada. E-mail: spirit@ucalgary.ca
- **July 23-26.** ASA/CSCA Conference: "Neuroscience and the Image of God," Langley, BC, Canada. Post-meeting trip through western Canada to Calgary. E-mail: carol@asa3.org; www.asa3.org
- **July 30-Aug. 1.** ICSA VI World Congress: Science and Religion: The Missing Link, Malibu, CA. www.jis3org/icsavi.htm

From the Editors

We are aware of many conferences, lectures, and other special events that feature the science and faith dialogue (see above). Those fortunate enough to attend or to present one are encouraged to send us a summary to stimulate more dialogue and to enrich us all.

Theilig, from p. 8

- "NASA plans to crash Galileo into Jupiter," www.cnn.com/2003/TECH/space/09/14/galileo.ap/index.html
- "Farewell to Galileo," www.space.com/searchforlife/seti_Phillips_Galileo_030918.html

Theilig Says Sagan's God Was Too Small

David Fisher

"In some respects, science has far surpassed religion in delivering awe." Eilene Theilig quoted Carl Sagan, in vivid contrast to her own world view. Sagan continued: "How is it that hardly any major religion has looked at science and concluded, 'This is better than we thought; the universe is much bigger ..., grander, more subtle, more elegant; God must be even greater than we dreamed?'"

Apparently Sagan never met Eilene. After more than 20 years as an astronomer, including 14 years at NASA's Jet Propulsion Laboratory working on the Galileo mission, Eilene told the ASA Annual Meeting attendees: "I have a profound belief in God and a deep appreciation for his created universe ... For example, the powerful, dynamic Earth that we live on has always spoken to me of a power that was greater

than ourselves—a driving force that we could neither control nor comprehend."

Eilene was anticipating that on Sept. 21, 2003, NASA would deliberately crash the Galileo spacecraft onto the surface of Jupiter. She explained that Galileo had been contaminated with more than four times the radiation it was designed to withstand. Weakening electronics and nearly depleted propellant meant "at some point we're going to lose control of the spacecraft." Since scientists had discovered the possibility of water on the moon Europa and the implied possibility of life there, it became very important to make sure Galileo couldn't contaminate that potential biosphere. Thus that potential source of contamination had to be destroyed.

As the Galileo project ends, Eilene is making a transition that **Bob Newman** calls moving "from one heavenly subject to another." She is now studying toward her M.Div. at Pacific School of Religion, Berkeley, CA.

Eilene concluded: "Exploration of our physical universe is a constant revelation and reminder that God is not limited by our imagination or self-possessed knowledge. No matter what we think we know, God is greater." Sagan could have benefitted from meeting someone like her.



Eilene Theilig

Photo courtesy: www.jpl.nasa.gov/news/

Theilig's plenary lecture is available on audiotape and videotape through Florian Audio Visual, 811 24th St, Wilson, KS 67490; 785-658-2375; florian@witciweb.com

Web sites relating to Galileo include:

- "Journey's End: Last Gasp for Galileo," www.space.com/scienceastronomy/galileo_finale_030921.html

Continued on p. 7, Theilig

American Scientific Affiliation
P.O. Box 668
Ipswich, MA 01938-0668

Address Service Requested

NON-PROFIT
ORGANIZATION
U.S. POSTAGE
PAID
Ipswich, MA
Permit No. 46

In This Issue

| | |
|--|---|
| The Heavens Declare the Glory of God! | |
| 2003 Annual Meeting of the ASA | 1 |
| The Executive Director's Corner | 2 |
| Affiliation of Christian Biologists | 3 |
| Of Interest | 3 |
| Links to Science and Religion Web Sites | 3 |
| Polkinghorne Visits Princeton Seminary | 4 |
| Early Career Scientists Report on Field Trip: "The Earth Has a History" | 4 |
| ASAers in Action | 5 |
| Welcome, New Members! August–September, 2003 | 5 |
| Opportunities: Call for Papers and Submissions | 6 |
| Job Postings | 6 |
| ASAer in Print | 6 |
| Coming Events in North America | 7 |
| From the Editors | 7 |
| Theilig Says Sagan's God Was Too Small | 8 |