

NEWSLETTER



of the
American Scientific Affiliation &
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A Young Theologian/Scientist Remembers ASA at Pepperdine 2002

Josh Abraham

As a seminary student focusing upon the historical interface of science and religion, I was fascinated with the concept of the ASA as an openly Christian association of practicing scientists and other professionals. I was eager to attend the 2002 meeting at Pepperdine U. in Malibu, CA.



Josh Abraham

I came away with several memorable images. I had never attended a Sunday chapel with hundreds of researchers! What a good time that was! It reminded me of something I once heard described as "presence ministry." Presence ministry is the sort of deep and lasting mark a Christian professor can make on a student who is struggling with world view.

Continued on p. 5, Remembers ASA 2002

Schaefer Honored, Has Surgery

Dave Fisher

Leave it to a teen to deflate a parent! Sixteen-year-old Charlotte Schaefer read the newspaper and told her father, **Henry F. Schaefer III**, "Dad, look at this! It says you've been nominated for the Nobel Prize!" A moment later she opined, "You're not going to get it. ... You're just not smart enough!"

If that 1987 conversation damaged his self-esteem, Schaefer's numerous awards should have restored it. Most recent was the May 12 announcement that the American Chemical Society's (ACS) Maryland Section and Johns Hopkins U. had selected him to receive their 2003 Remsen Award. Previous honors include the ACS Award in Pure Chemistry, the ACS Leo Hendrik Baekeland Award, the Schrödinger Medal, the Centenary Award of the Royal Society and the 2003 ACS Award in Theoretical Chemistry. He has authored more than 975 scientific publications and has been an Alfred P. Sloan Research Fellow and Guggenheim Fellow.

Since 1987 "Fritz" Schaefer has been Graham Perdue Professor of Chemistry and Director of the Center for Computational Quantum Chemistry at U. of



Henry F. Schaefer III

Georgia. His team developed a computer program to solve quantum mechanics problems by using Schrödinger's equation. His "computerized chemistry" has been especially useful where experiments are difficult, expensive, or dangerous.

Quintuple Bypass, Single Vision

On May 13, Schaefer boarded a jet "to speak of the unsearchable riches in Christ ... at the Technical U. in Berlin," which he calls "one of the three or four best in Germany for science." Four days after his return, he had a major bout of angina, leading to hospitalization the next day and quintuple bypass surgery May 23. The following Thursday he was back online, telling ASAN:

I am a little wobbly, but Jesus is not. As a Christian, I think it is axiomatic that God's intentions for his people are always and only good. It looks like he has more work for me here, as the physicians are happy with my progress.

Continued on p. 3, Schaefer

JOIN US for

**ASA'S Annual Meeting
in the Rocky Mountain High
Denver, July 25-28, 2003
Colorado Christian University**

In addition to the Astronomy emphasis, there will be sessions on "Our Faith and Science at Work and Church," "Bioethics," "Divine Action in Nature," and "Privileged Planet."

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The Executive Director's Corner

by Donald W. Munro

The 58th annual meeting of the American Scientific Affiliation is soon to convene (July 25–28) at Colorado Christian U. (CCU) in Lakewood, CO. I hope to see you there. The topics of astronomy and cosmology are so interesting that I sometimes wonder if I were to be starting in science now whether I would choose cell biology again over astronomy. Sorry, if that is heresy to my biology friends but I do love both topics. One peers into the tiniest of things while the other peers into the broad expanse.

At CCU we will be welcoming over 20 student and early career scientists on scholarship who are new members of ASA. They will report on their research either by lecture or poster and become acquainted with the ASA.

This meeting has the most exciting array of field trips of any that I can remember. Colorado offers so much for your families to see either before or after the meeting.

In this edition of the newsletter, we honor those who have been active members for 35 years. According to the journal or newsletter, 1968 was their year of full membership. Some may have joined earlier as a student but they apparently were not listed until

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they became a full member. We congratulate the following people: **David S. Barnes, Stephen J. Barnhart, Paul F. Blattner, Jr., Roger D. Griffioen, John S. Haverhals, Fred S. Hickernell, Christopher B. Kaiser, Yi Li Liu, L. Whit Marks III, Helen E. Martin, Ellen W. McLaughlin, Clarence Menninga, Donald V. Noren, John L. Orchanian, Evelina Orteza y Miranda, Walter Partenheimer, Thomas W. Schipper, Kenell J. Touryan, John L. Van Noord and John B. Van Zytveld.** Two presidents joined in 1968 as Kenell Touryan is ASA president this year and Fred Hickernell is a past president (1994). We hope that many of you 1968ers will be willing to share your remembrances with the newsletter editors.

It is not too early to begin thinking about our July 23 to 26, 2004 meeting at Trinity Western U. in Langley, British Columbia, Canada. Every four years we have a joint meeting with the Canadian Scientific and Christian Affiliation (CSCA). This year we anticipate an exciting combined meeting, with the Christians in Science (CiS) from Great Britain also attending. Program Chair **Judith Toronchuk** (CSCA) will be assisted by **Kenneth Dormer** (ASA) and Hugh McReynolds (CiS). Local Arrangements Chair is **David Clements**. The broad topic is neuroscience.

Following the meeting, we have planned a bus tour of Canada's spectacular western Rockies with Collette Vacations, the company that took us around Nova Scotia in 2000. The trip will leave Langley during the afternoon of Monday, July 26, 2004 and end up in Calgary, Alberta on Sunday, Aug. 1, 2004. There will be overnights at the famous Fairmont Chateau Lake Louise and also in Jasper, Banff and Calgary.

The tour package includes ten meals, first class and deluxe hotel accommodations, a professional tour guide, deluxe air-conditioned motorcoach and many exciting things to see such as the Columbia Icefields, Victoria Glacier, Athabasca Falls, Bow Falls and the Hoodoos. Collette also gives you time

to do things on your own. Those who have come on our trips before can appreciate the wonderful fellowship we experience. Start saving your pennies and figure on about \$1,350 per person in a double room, more for a single. You will have to find your way home from Calgary. Space is limited. Registration material will be available in the near future.

The second year of the present Templeton/ASA Lecture Series grant is about to begin. If you want some details of who spoke on what and where this past academic year, you can go to ASA's web site and click on the Templeton/ASA logo in the lower left-hand corner; the lecture web site will come up. Then go to paragraph 2.e. and click on "details of the Scheduled Lectures for 2002/2003." So far at least 35 colleges, universities and seminaries will participate in the next series, and I am still actively pursuing some other large, well-known universities. Among others, look for a series at Baylor, Boston U., Los Alamos National Laboratories, McMaster (Canada), Princeton, Queen's U. (Belfast, Ireland), Stanford, U. of Calgary (Canada), U. of CA at Santa Barbara, U. of Colorado, and Utah State. We will announce the details for as many as we can in future newsletters.

Let me say first that we very deeply appreciate all of you who recently have sent donations. But in this stagnant economy, gifts have been sharply down and we depend on them to make up the difference between dues and budget. If we charged a dues figure that would cover the cost of operation, it would discourage many people from joining or continuing. We have already lost a few members this year because they could not afford to renew. So along with your prayers for us, I would greatly appreciate it if you could consider a gift to ASA this summer.



Schaefer, continued from p. 1

Inoculated against Christianity

Negative experiences with numerous churches gave Schaefer an “inoculation ... against genuine Christianity.” The “un-inoculation” took years of persistent research that convinced him of the factuality, first of the resurrection and then of the rest of Scripture. At a pivotal juncture, **Walter Thorson**, who was then an MIT prof., helped. Schaefer details his spiritual journey in “From Berkeley Professor to Christian,” www.westminsterhall.us/hfs3/berk_to_christ.doc

On one of his web pages, Schaefer summarizes: “The significance and joy in my science comes in the occasional moments of discovering something new and saying to myself, ‘So that’s how God did it!’ My goal is to understand a little corner of God’s plan.”

Emergence, Transcendence and Religious Naturalism

Douglas Glazier

Can the origin of complex living structures and properties, such as the human mind and religious spirituality, be explained as the result of natural processes? This was the challenging question tackled by Dr. Ursula Goodenough at Juniata C. in Huntingdon, PA on March 10, 2003. The lecture was supported by the Templeton Foundation and the J. Omar Good Fund at Juniata C. Goodenough is professor of biology at Washington U. in St. Louis, MO and author of *The Sacred Depths of Nature* (Oxford U. Press).

In two presentations, Goodenough emphasized the importance of “emergent properties” in understanding the evolution of complex higher-order phenomena in nature. She showed how simple entities or processes, what she called the “nothing but,” may interact to produce new, complex properties, the “something mores.” Examples were given from both the physical and biological worlds. For example, the

“surface tension” of water is not a property of individual water molecules, but of how they relate to one another. Similarly, animal movement is not a property of individual muscle proteins (myosin and actin), but of how these proteins slide past one another to produce muscle contraction.

In her first lecture, “The Evolution of the Bacterial Flagellum and the Automobile” she showed how the bacterial flagellum, one of the most complex cellular structures known, could have evolved as a result of step-wise evolution. She argued that, although the flagellum is presently “irreducibly complex” in the sense that it loses its function of motility when deprived of any one of its parts, this does not mean that it has always been that way. Although the parts of a structure or process may presently be functionally indispensable (as an electric starter, automatic transmission and electric key entry may now be for a modern automobile), such parts may not have been functionally necessary at earlier stages in the evolution of a complex structure or process. Furthermore, a complex structure and/or its parts may switch functions over time in response to changing needs, a phenomenon well recognized by evolutionary biologists. According to Goodenough, the number of parts of a complex structure and their interrelationships can be altered by the tandem effects of random mutation (including gene duplication) and natural selection. Therefore, through “serendipitous creativity,” new and increasingly complex structures may evolve.

Goodenough’s second lecture, “Emergence, Transcendence and Religious Naturalism,” applied her argument about how evolution may produce increasingly complex “emergent properties” to the problem of how human consciousness originated. Goodenough embraces religious naturalism and thus she regards biological evolution as being central to an understanding of the nature and origins of human sociality and ultimately our religious spirituality as well. For her, spiritual

feelings come from a sense of being related to the rest of life by an ancient history of common descent. The evolutionary ascent toward humanity is a process that generates awe and wonder. She argued that the evolution of human consciousness is a story of repeated evolutionary innovation. New, emergent properties such as cellular awareness build on themselves to produce ever more complex emergent properties, such as neural awareness, brain-centered awareness and finally self-awareness. This evolutionary journey, most recently promoted by the construction of our own “culture-created niche,” has led to transcendent human characteristics such as mindfulness, care, compassion and reverence.

Goodenough ended her talk by discussing how our closest living relatives, the chimps and bonobos, are good-natured and appear to genuinely like their social comrades. Based on this and other observations, she claimed that evolution is not just about ruthless competition, but also about mutually beneficial cooperation. Social cooperation has, in turn, made possible the emergence of religious spirituality.

Dr. Douglas Glazier is professor of biology at Juniata C. and teaches courses which bridge science and religion.

Grant Winners Announced

The 2003 winners of the grants of the Templeton Research Lectures on the Constructive Engagement of Science and Religion are U. of Montreal and UCLA. The aim is “to foster strategic, scholarly and constructive dialogue on the critical relationship between science and religion and create a platform for interdisciplinary learning at the level of great research universities.” Charles L. Harper, executive director of the John Templeton Foundation states: “Will fanatics use biotechnology to exterminate countless millions or will it be used to heal poverty in a world where three billion people live on less than two dollars a day? These are questions that cannot be resolved by either science or religion and ethics in isolation.”

Innovative Congregational Programming in Science and Religion: A Model

Barbara Pursey

In Feb. 2003, University Presbyterian Church in Tempe, AZ, devoted their



Barbara Pursey

annual mission month to science and faith issues. They decorated the sanctuary with murals depicting important scientific discoveries significant to Christians, and the children's sermons all had science themes. The message clearly was: "We can praise God through science and technology."

ASAers led two of the weekends: **Margaret Towne** (U. of Nevada, Las Vegas) covered "Evolution, Genetics and Continuing Creation" and focused on the harmony between God's Word and God's works and included a presentation titled "Is Genesis Science?"

Barbara Pursey centered on "Connections between Science and Faith in Education/Worship in the Church." She considered how creation and redemption are interwoven and how such concerns could be integrated into local church ministries. She also tied together the themes of science and faith in a talk "Understanding the Cosmos as Creation."

Other leaders were Rev. Dr. James B. Miller, on the program staff of AAAS, who was the kickoff speaker. He dealt with the unavoidable challenges when science and faith interact, not just in theory but in practical Christian living. His Sunday forum "Science and Religion: At the Banks of the River Jordan" emphasized the need for Christians to move beyond where we have been to new forms of mission which are more integrative in approach toward science and religion. Astrono-

mer Fr. George Coyne, S.J., Director of the Vatican Observatory Research Group at the U. of Arizona and science advisor to Pope John Paul II, concentrated on creation, astronomy, and our view of the universe. He discussed what our new knowledge reveals about the origins of the universe and the God who created it, and how all this impacts our faith.

Each leader conducted a session on Saturday night and an adult forum on Sunday morning as well as preached in the worship service. Several also gave presentations to youth on Sunday evening. On the last weekend, the children, youth, and their teachers held a well-done science fair in the church courtyard.

All in all, the church programs for the mission month provided an integrated approach and a seriousness of purpose which offered much more than the usual "add science and stir" piecemeal programs. This model could fruitfully be considered by other churches interested in a fresh approach to science/faith as a mission of the church.

The Mission Statement from the church's planning team was:

Mission Month 2003 will encourage consideration of the implications of science and technology as they affect the theology, worship, practice and public policy positions of the church. To that end we will:

- Prepare ourselves to understand the contemporary interaction between science and religion by exploring the historical and cultural setting inside which the two fields have co-existed;
- Celebrate the remarkable discoveries in astronomy and physics and consider their impacts on the Christian Church;
- Revisit discussions on evolution and consider progress in biology and medicine in an effort to clarify our faith response to difficult issues such as stem cell research, human genetics and global warming;
- Consider how what we have learned affects the life and mission of the church;

- Encourage the formation of an ongoing discussion group/book club for additional study and fellowship beyond Mission Month 2003;
- Reach out to communities outside of our church and invite them to join us on this journey of faith and study.

Barbara Pursey has a PhD in organic chemistry from UCLA and taught at Cal State U. Northridge, Iowa State and U. of Glasgow. She earned an MDiv and served on the faculty at U. of Dubuque Theological Seminary, teaching spiritual formation and faith education until her retirement in 1997.

Recalling Scientific History

Lecture Series Explores Historical Issues of Scientific Debate

Nathan Heller

In order to cultivate fruitful dialogue about difficult science/faith issues, Messiah C. hosted a multi-dimensional event on March 25–26 entitled *God and Science: A Public Dialogue*. Sponsored by the John Templeton Foundation, the event featured Dr. Edward Larson, Pulitzer Prize-winning author, historian, and legal scholar from the U. of Georgia.

In his first lecture, "Creation, Eugenics, and the Law," Larson outlined some relevant background to contemporary concerns about genetic testing and discrimination, most notably describing the eugenics movement in the Deep South during the early part of the 20th century. He also discussed current approaches to genetic testing and gene therapy from the medical and ethical perspectives.

Then came a lecture entitled "Creationism and the Law." Before an audience of attorneys, clergy, school administrators, and state representatives, Larson outlined the history of religious opposition to evolution, focusing largely on the events of the 1920s.

"The '20s were the first time most children went to public school, but most people still thought in terms of

farm life and one-room schoolhouses,” Larson commented. “Neither the scientific modernists nor the fundamentalists wanted the other side’s theories taught in public school biology classrooms.” Larson guided his audience through the rest of the 20th century, ending his talk with a summary of the intelligent design movement.

Finally, Larson delivered a public lecture titled “God and the Galapagos,” following a special presentation of the IMAX film, *Galapagos*, in Harrisburg’s Whitaker Center for Science and the Arts. Drawing on the film’s presentation of current zoological research in the Galapagos Islands, Larson explained the historical significance of the archipelago, beginning with Darwin’s visit to the islands in 1835. He outlined the research of key scientists, such as Louis Agassiz, Walter Rothschild, and David Lack, and included an examination of the varieties of religious faith they brought to the islands. Or, as Lack, the kind of faith he found after leaving. Ultimately, he concluded: “Observers bring their concept of God to the Galapagos and of the Galapagos to their god. Conceptions of religion and science mingle in the Galapagos.”

In late June, Messiah C. hosted a workshop designed for clergy and high school science and social studies teachers. It provided information and experiences designed to improve their understanding of biological evolution, modern cosmology, and religious issues related to teaching science in public schools.

In the future, Messiah C. hopes to host similar events that encourage holistic conversation about difficult science/faith issues. “We want to foster fruitful conversation about science and religious faith,” says **Edward Davis**, professor of the history of science at Messiah and one of the facilitators of the event. “We’re offering opportunities for people to become involved in learning more about these issues.”

Nathan Heller is a junior English major at Messiah C., Grantham, PA.

Urbana 03, Coming Up!

Find out more on InterVarsity’s 20th Student Mission Convention (Dec. 27–31) at the U. of Illinois, Urbana-Champaign. 20,000 college students, missionaries, and church and campus leaders will be present seeking God’s will for their lives. Worship with people of diverse cultures and learn about God’s passionate love for the world through Bible study, prayer, seminars, and dynamic speakers. “Urbanas” began in 1946 and have generally occurred at three-year intervals. They’ve helped thousands to discover ways to represent Christ more effectively on campus, in employment, and in cross-cultural ministry.

A roster of more than 300 speakers will address campus evangelism; specialized ministries including health-care, social justice, arts, and world religions; and multi-ethnic challenges and opportunities for peoples of diverse backgrounds.

During our heightened awareness of Islam, substantial interest will center on Jim Tebbe. Now IVCF’s Urbana Director, Tebbe was born of missionary parents in Pakistan and has since earned degrees in psychology, near Eastern studies/Islamics and religious studies. Preview some of his insights on-line: www.urbana.org/_articles.cfm?RecordId=655

Other speakers are described at www.urbana.org/u2003.speakers.cfm

- **Save money—Register by Aug. 31**
- Check out Quick Facts including financial information at www.urbana.org/u2003.quickfacts.cfm www.urbana.org/u2003.payingfor.cfm
- Register at: www.urbana.org/u2003.registration.cfm

Editor’s note: This would be a great Christmas gift for a son, daughter, grandchild or young person from church! Some attendees have described their experience as “Like trying to drink from a firehose!” If you know someone who is graduating in the next three years, this is a “hydrant” they will want to explore.

Ecumenical Roundtable on Science, Technology and the Church

Margaret Towne

The Ecumenical Roundtable on Science, Technology and the Church was held April 25–27, 2003 as guests of the Episcopalians at the beautiful Roslyn Retreat Center in Richmond, VA. You can’t beat Virginia in April when the dogwoods, azaleas and rhododendrons are in bloom! Approximately 40 members representing the United Church of Christ, Methodist, Presbyterian, Lutheran, Catholic and Episcopal churches were in attendance.

Continued on p. 6, Roundtable

Remembers ASA 2002, from p. 1

I was ministered to—in ways I cannot explain—by seeing biologists, physicists, and others praising God. I would greatly encourage students, whether aspiring academics or not, to consider checking out an ASA annual meeting.

I do have one hope not yet fulfilled, however. I was glad for the discussion on origin of life issues; however, I hope in the future the “big-name” intelligent design proponents might be compelled to participate. Christian students are being impacted by Christian leaders who are fighting with one another about evolution; who is disciplining these students about the origin of life? The ASA has a rare position in the American social scene and I hope it will make a lasting contribution to the next generation of Christian students.

Finally, I want to say that it was hugely encouraging to see the young, aspiring scientists being lifted up and their work acknowledged. The ASA’s facilitation of these student presentations was in my view one of the most important events of the conference (notwithstanding the fine lectures). The ASA will endure for years to come if it can continue this sort of good work.

Josh Abraham, a graduate student at Regent C., received a degree in biology from Yale, and an MA in Science Education at West Virginia U. He taught four years in a public school in North Carolina before beginning at Regent.

Roundtable, continued from p. 5

Presentations were given on Intelligent Design by several members and breakout sessions were held for further discussion. Other subjects in smaller sessions centered on Christian Education, Environmental Issues including research updates on food, water, and species preservation, Theology, Education and Public Policy, the Metanexus Institute, and AAAS DoSER (Dialogue on Science, Ethics and Religion) programs.

As is often the case, much was accomplished during social settings and over the dinner tables. Several interactive worship services centered on science and faith and the featured kickoff speaker, geneticist Lindon Eaves, gave a most unique, entertaining and thought-provoking presentation on "Gods, Gifts and Genomes." One of his points was that new insights require creative thought and the Holy Spirit guides in that journey.

The Ecumenical Roundtable concentrates on bringing the science and religion dialogue to the church, its people and programs, and to organize local societies in order to stimulate change through education and example. It concentrates on the folk in the pews rather than academia but benefits from and influences all.

Coming Events

- **July 7–25.** "Christian Environmentalism: Living as Part of God's Good Earth," Calvin C., Grand Rapids, MI. For faculty and advanced graduate students. www.calvin.edu/fss/prov03.htm
- **July 16–23.** "Communicating Well for Ministry in a Technological Age," Calvin C., Grand Rapids, MI. Email: seminars@calvin.edu; www.calvin.edu/fss/
- **July 17–19.** 10th Annual Conference on Bioethics: "Remaking Humanity? Biotech Challenges for Healthcare, Science and the Church," Chicago. Email: info@cbhd.org; www.cbhd.org/conferences/biotech/index.html
- **July 21–26.** "Meeting the Creator for the First Time: Exploring the Cosmos as Creator," Ghost Ranch, Abiquiu, NM, **Barbara Pursey**, Leader. Details at: www.ghost ranch.org; or 505-685-4333, ex. 155
- **July 25–28.** ASA Annual Meeting: "Astronomy and Cosmology" Lakewood, CO. Email: Carol@asa3.org; www.asa3.org
- **July 26–Aug. 2.** IRAS (Institute on Religion in an Age of Science) 50th Annual Star Island Conference: Ecomorality, Isle of Shoals, NH. Email: webmaster@iras.org; www.iras.org
- **Aug. 9–12.** 2003 North American Interfaith Network Connect: Journeys of Faith, Freedom and Justice, Columbus, OH. Email: Ipstansbery@wideopenwest.com; www.nain.org
- **Aug. 12–13.** Second Annual Conference of the New England Institute for Cognitive

Science and Evolutionary Psychology, "Religion, Cognitive Science and Evolutionary Psychology," Eastland Park Hotel, Portland, ME. Email: haskellr@maine.rr.com or visit www.une.edu/nei

- **Aug. 17–22.** Realia 43rd Annual Summer Conference: "Philosophical Issues in Contemporary Science," Digby, Nova Scotia. Email: realia@cyberportal.net; www.contemporaryphilosophy.com/Annual-conf.htm
- **Sept. 19–20.** "The Face of the Future: Robosapiens?" Waterfront Plaza Hotel, Oakland, CA. Email: robyn@theCBC.org; www.theCBC.org/exp/conference.asp
- **Oct. 7.** "The Romance of Water: Culture, Religion, Science and the Pathway to Sustenance," New York. Email: cssr@columbia.edu; www.columbia.edu/cu/cssr
- **Oct. 16.** "The Emerging Alliance of Religion and Ecology," Philadelphia, PA. Email: Kduffy@chc.edu
- **Oct. 22–23.** "Living in the Image of God: The 2003 Sharpe Lectures on Social Ethics," Chicago, IL. Email: mjohnso@midway.uchicago.edu
- **Oct. 23.** "Religion in Motion," Norfolk, VA. Email: jcandi@luna.cas.usf.edu
- **Oct. 23–24.** "Spirituality Symposium," Salina, KS. Email: holly@logicmediagroup.com
- **Oct. 24.** "Scientific Findings About Forgiveness," Norcross, GA. www.forgiving.org
- **Oct. 24–26.** Religious Research Association Annual Meeting: Religion and Contemporary Culture: Exploring the Intersections of Religious Research, Norfolk, VA. Email: beaman@alcor.concordia.ca; <http://rra.hartsem.edu>

Of Interest

Behind the Scenes at Malibu

A senior research scientist from northern California, who had just become a Christian in the past year, heard about ASA and he and his wife just happened to have planned a visit to southern California at the time of the Pepperdine Conference in 2002. They decided to attend and were amazed to meet so many Christians who were scientists!!! They said, "It is a whole new world!" They were introduced to a postdoctoral researcher from their general area who had heard about ASA via

Links to Science and Religion Web Sites
 Below are some web sites which pertain to the science and religion dialogue. This is a beginning ... Send us additional sites you recommend!

www.aaas.org/spp/dser	American Association for the Advancement of Science: Dialogue on Science and Religion
www.ctns.org/index.html	Center for Theology and the Natural Sciences
http://ITEST.slu.edu	Institute for Theological Encounter with Science and Technology
www.iras.org/home.html	Institute on Religion in an Age of Science
www.templeton.org	John Templeton Foundation
www.researchnewsonline.org	Research News and Opportunities in Science and Theology
www.science-spirit.org	Science and Spirit
http://bibleandscience.com	Bible and Science
www.metanexus.net	Metanexus Institute on Religion and Science
www.ncseweb.org	National Center for Science Education
www.iscid.org	The International Society for Complexity, Information, and Design
www.hometown.aol.com/ibss1	Institute for Biblical and Scientific Studies
www.reasons.org	Reasons to Believe
www.leaderu.com	Campus Crusade's Leadership University
www.asa3.org	American Scientific Affiliation

the web and was also looking for colleagues who were Christians. Thus a friendship began. Coincidence? God was at work in many ways at Malibu; blessing, enriching, edifying, challenging, encouraging, correcting and using us. ASA is a viable medium for this heavenly action. We anticipate God's action in Colorado at our annual meeting.

New Masters Degree Program

Northwest Nazarene U. in Nampa, ID has developed an online, fully-accredited Masters Degree in Spiritual Formation. This program is structured around group dialogue and readings, fostering diverse ideas, theological reflections, and application to ministry contexts in cities around the globe! One student from Papua, New Guinea, travels to some of the world's most technologically primitive places but, thanks to the power of the internet, he is able to communicate with fellow students across the world and gains both theoretical and practical knowledge as well as spiritual encouragement from his online professors. Contact Mark Maddix at mamaddix@nnu.edu or visit www.nnu.edu/ma.

ASAers' in Action

• **Jimmy H. Davis** and **Harry L. Poe** have established the Baconian Society at Union U. in Jackson, TN to promote the science/faith dialogue. Initial support has been provided through the Metanexus Institute of Philadelphia. This society will pursue a three-year project exploring the question "What does it mean to be human?" from the perspective of a variety of disciplines.

• **Ray Zimmer**, Medical Physicist at Providence St. Vincent's Medical Center in Portland, OR, presented a lecture, "Religion and the Paleolithic from the Perspective of the Evolution of Talk." It was part of the Inter-religious Dialogue with the Natural Sciences session at the Northwest regional meeting of the Society of Biblical Literature in Moscow, ID, April 25-27. He pointed out that the evolution of talk is different from the evolution of "language,"

which biology defines as "the capacity to talk." He discussed the transition "from 'hand-speech' talk (currently practiced by North American Plains Indians and Australian aborigines) to 'speech alone' talk (currently practiced by all civilizations). ... 'Hand-speech' talk of the Paleolithic was rich in narrative symbolism but devoid of the constructive symbolism that would be needed to attain 'cognitive fluidity' among specialized intelligences. Consequently, a sign system rich in both narrative and constructive symbolism better explains the emergence of cognitive fluidity in the Paleolithic. That sign system was religious representation." John.Zimmer@providence.org

The editors of this newsletter welcome information on members' activities pertaining to the dialogue of science and religion. Summaries of conferences or presentations are encouraged so that we can all benefit. dfishertwr@comcast.net or TowneMG@aol.com

With the Lord

• We are sorry to relay the passing of long time member, **C. Bruce Wenger** on November 22, 2002 in Natick, MA. Dr. Wenger was a medical doctor who specialized in the physiology of illnesses caused by heat. He did ongoing

research at the US Army Research Institute of Environmental Medicine. His research was applied to the military in Gulf War I as well as the recent war in Iraq. He gathered much of his data at Paris Island, SC where he worked extensively with the marines.

• Emeritus chemistry professor **Roy M. Adams** passed away March 26 at age 83. He was born in Hong Kong of missionary parents and graduated Summa Cum Laude from Sterling C. He took his doctoral work at U. Kansas in two installments, interrupted by military service as pilot and navigator. He was professor of chemistry at Geneva C. in PA from 1947 until his 1985 retirement. He edited the textbook *Boron, Metallo-Boron Compounds and Boranes*. Roy held eleven patents and encouraged more than 100 students to earn PhD or MD degrees. His sons tell us that, to the end, his memory was near photographic, his wit sharp and dry, and his health good enough to feed cows every day. He often quoted the verse, "The Earth is the Lord's and the fullness thereof," and practiced stewardship and recycling long before these became popular.

We know that when these gentlemen met their Maker, they heard, "Well done, good and faithful servant."

Welcome, New Members! April-May 2003

Adams, Nathan P. -Rochester, NY
Bates, Jennifer -Concord, MA
Beling, Christopher D. -Pokfulam, Hong Kong
Blume, Frank -Siloam Springs, AR
Bracht, Stephen -Socorro, NM
Coburn, Melinda -Millers Tavern, VA
Cockar, Shaila -Wheaton, IL
Cudney, Nicholas R. -Portage, MI
Deters, Levi -Post Falls, ID
Erdlac, Jr., Richard J. -Midland, TX
Flinn, Chris -East Peoria, IL
Green, Michael A. -Brighton, MI
Hall, Jonathan -Rockford, IL
Hall-Beyer, Mryka -Calgary, AB, Canada
Halter, David R. -Gaylord, MI
Honeycutt, Jared -Wheaton, IL
Jones, Stephanie -Tampa, FL
Katana, John -Lake Ann, MI
Kuhnhausen, Amanda -Sisters, OR
Lambrecht, Corrie -Socorro, NM
Leverentz, Megan -Edina, MN
Main, Matthew B. -Parma, MI

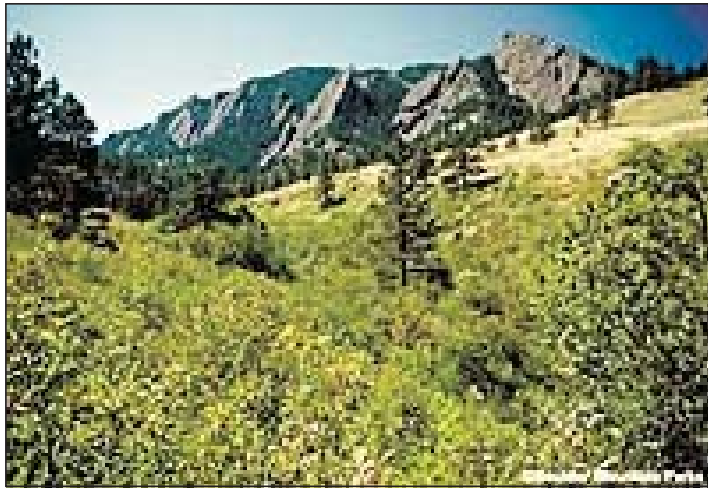
Mannoia, Kristyn -Upland, CA
Matthews, Mark J. -Edmonton, AB, Canada
McLaughlin, Thomas J. -Denver, CO
Moser, Peter M. -Hampstead, NH
Mylin, Lawrence M. -Grantham, PA
Nation, Travis -Central, SC
Page, Laura C. -Stanwood, WA
Seybold, Kevin S. -Grove City, PA
Sharp, Sarah -Shorewood, IL
Shoop, David M. -Siloam Springs, AR
Singer, Jarvis G. -Havelock, NB, Canada
Stamps, Carolyn L. -Ellicott City, MD
Stillwell, Jerry D. -Louisville, KY
Stults, Dee Ann A. -Richmond, IN
Swan, Benjamin -Ames, IA
Thorn, Emily E. -Los Alamos, NM
Vieira, Gladys L. -Gambrills, MD
Waits, Kathryn E. -Tucson, AZ
Weeks, Heath -Hobbs, NM
Whitmore, Nathan D. -Indianapolis, IN
Wright, Amy -Chicago, IL
Zambrana, Jr., Jose L. -Astoria, NY

Rocky Mountain High Field Trips

A variety of field trips are offered at the Annual Meeting this year. Two geological field trips are featured here.

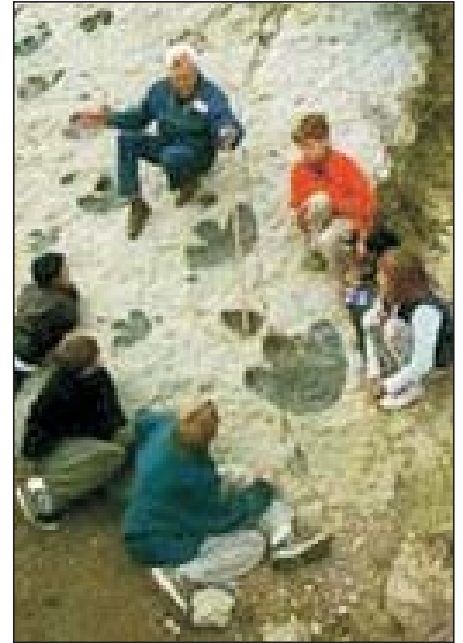
1. The Earth HAS a History led by A. R. Palmer, a paleontologist specializing in trilobites of the Cambrian Period who was a professor of geology at the State University of New York, Stony Brook.

This 5-hour field trip provides a wonderful opportunity to see the geological record in the colorful Flatirons area of the Rocky Mountain Front Range near Boulder with an expert in the field. We will be reading the Earth's story in the rocks.



Rocky Mountain Front Range near Boulder

2. Red Rocks-Dinosaur Ridge Field Trip led by Thomas Bidgood, associate professor of physical sciences at Colorado Christian U. Dinosaur Ridge is a geologically famous natural landmark along the Front Range of the Rocky Mountains near Morrison and just minutes from CCU. Jurassic dinosaur bones such as *Stegosaurus* and *Apatosaurus* as well as over 300 Cretaceous dinosaur footprints can be seen.



Red Rocks-Dinosaur Ridge

Other equally inspiring and edifying field trips include "High Altitude Ecology," "National Center for Atmospheric Research," "The National Renewable Energy Laboratory," and "Betty Ford Alpine Gardens."

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In This Issue

Schaefer Receives Remsen Award.....	1
A Young Theologian/Scientist Remembers ASA at Pepperdine 2002.....	1
The Executive Director's Corner.....	2
Emergence, Transcendence and Religious Naturalism.....	3
Grant Winners Announced	3
Innovative Congregational Programming in Science and Religion: A Model.....	4
Lecture Series Explores Historical Issues of Scientific Debate.....	4
Urbana 03, Coming Up!.....	5
Ecumenical Roundtable on Science, Technology and the Church.....	5
Coming Events	6
Of Interest	6
Links to Science and Religion Web Sites.....	6
ASAers' in Action.....	7
With the Lord	7
Welcome, New Members! April-May 2003.....	7
Rocky Mountain High Field Trips.....	8