



SETTING  
OUR  
WATCHES  
ON  
TULSA  
TIME



Many of us are thinking about packing our suitcases for Tulsa and are asking ourselves what we'll find. I have secondhand knowledge of Tulsa, gained from acquaintances who have stayed there, prayed there, came of age and studied there, and from popular music such as the country song "Tulsa Time" (written by Danny Flowers, sung by Don Williams and also Eric Clapton), expressing a nostalgia for a simpler style of life than of what we may currently experience. Going to Tulsa, I will entertain academic ideas, dig through archives, and tour historical and ancient sites to get an idea of the soul of the place and to find the expression of God as ASA meets for, as the theme of our meeting describes, "Hearing God's Voice in Nature."

We'll hear Bethany Sollereeder who comes from Oxford University as a materials science research coordinator; and who has a freshly minted PhD in theology from the University of Exeter. She spoke as a panelist at the 2014 ASA/CSCA/CiS Annual Meeting in Hamilton, Ontario, on theodicy, which addresses how suffering challenges our faith in God. Combining older and newer approaches from classical and natural theology, her talk pointed to how, in the context of Christ's redemption, her approach might meet these challenges. This year, as our first plenary speaker, Bethany presents "**Blood, Fire, and Fang: Listening for God in the Violence of Creation.**" Our next plenary speaker, Alister McGrath, focuses on the latter of these theological approaches in "**Hearing God's Voice in Nature: Natural Science and Natural Theology.**" Then we will place these theological concerns in the broadest scientific context of a philosopher of science, in hearing Esther Meek's "**Covenant Realism: How Love Is at the Core of All Things.**" Finally, our plenary sessions culminate in Amos Yong's "**The Breath of God and the Light of Nature: Toward a Pneumatology-Science Dialogue,**" exploring God's continued work in his creation and the mission of his church.

*For more "On Tulsa Time," see page 3.*

*Hearing God's  
Voice in Nature*

at

**ORU** ORAL  
ROBERTS  
UNIVERSITY

"Great are the works of the LORD;  
they are pondered by all who  
delight in them." Ps. 111:2

*2015 ASA Annual Meeting  
in Tulsa, Oklahoma  
July 24-27, 2015*

Early registration rates end  
June 15, 2015

Read more explorations related to the theme of this year's annual meeting in ASA's *God and Nature* magazine: [godandnature.asa3.org/](http://godandnature.asa3.org/)

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## DIRECTOR'S CORNER

*From the desk of Executive ASA Director, Randy Isaac.*

Enthusiasm is building for this year's annual meeting at Oral Roberts University. This will be our first meeting in Oklahoma, and it promises to be a special one. The ORU campus is attractive and suitable for walking and meditating. As program chair, Dominic Halsmer has also promised to arrange good weather—at least for anyone who considers a little heat and humidity with occasional thunderstorms to be good.

This issue of the newsletter highlights the plenary speakers and some of the events planned for the meeting. Attendees of previous meetings report that while the speakers are excellent, the most valuable benefit of the meeting is the personal interactions and fellowship. Recordings of the meeting will be available, but they cannot reproduce the connections made by networking. We hope you are planning to attend.

Last month the ASA Executive Council met in our new office condo in Topsfield, MA. While we were meeting, we received the check in the mail that put us over the top of our annual fund goal. Thank you all for your generous outpouring of support. The council approved the budget for this coming year, and once again we are counting on you for your faithful participation. Our capital campaign has also been very successful. We paid \$140,000 for our office condo and the loan is now down to \$80,000.

We have attracted a large number of student members through our free basic student membership. A significant part of our council meeting was devoted to our strategy for meeting their needs and interests. We hope to launch some new initiatives in the next few months that will be of interest and value to all of you, so stay tuned.

While our student membership has grown rapidly, our paid memberships have dropped. The ASA is a membership organization and we are member-led and member-funded. This means that sustaining and growing our membership is of high priority. Most new members join the ASA because of the recommendation of other ASA members. That's why we count on you to be our ambassadors and to encourage your friends and colleagues to join.

Our society continues to appear more and more polarized on many issues. Science and faith continue to be widely viewed as conflicting paradigms. In this context, last month's conference on Perceptions of Evangelicals and Scientists, organized through the joint project of AAAS, NAE, and the ASA, was a very encouraging beacon of hope. The attendance was 250 with many ASA members in the audience and in the leadership roles. We'll be telling you more about this conference and sharing recordings of it in the weeks and months to come. Our ASA mission continues to be timely and of vital importance to both the Christian and the scientific communities. Thank you for being part of it.

## NEW MEMBERS LIST

*We have a record*

**315 new members**

*from October through  
December 2014!*

Adamson, Di'Mehlia –Tulsa, OK  
 Aguiar, James –Lynn, MA  
 Aguilar, Eslie –Walhalla, SC  
 Ahn, Jiwon –Malibu, CA  
 Alexander, Madison –Tulsa, OK  
 Alexander, Sam –Madison, AL  
 Alonzo, Michael –Corona, CA  
 Andersen, Howard –Surrey, BC  
 Aquino, Eliara –Haverhill, MA  
 Araujo, Kristel –Concord, CA  
 Arcadi, Evan –Terrace, BC  
 Arcuri, Marie-Louise –Tulsa, OK  
 Armstrong, Alexander –Santa Ana, CA  
 Ashenhurst, Chloe –Wheatland, WY  
 Ashenhurst, Slater –Tulsa, OK  
 Asher, Daniel –Tulsa, OK  
 Ashlock, Mariah –Sapulpa, OK  
 Ayew, Samia –Rochester, NY  
 Baglia, Kelly –Wheaton, IL  
 Bala, Kelsey –Wenham, MA  
 Baldwin, Cera –Tulsa, OK  
 Banter, Sara –Siloam Springs, AR  
 Barr, Mary Frances –Havertown, PA  
 Barszczewski, Sara –Sherwood Park, AB  
 Barwich, Kira –Calgary, AB  
 Bell, Nicole –Riverside, CA  
 Bieren, Kiersten –Groton, MA  
 Biggs, Gavin –Tulsa, OK  
 Birky, Hannah –Kouts, IN  
 Blain, Trent –Broken Arrow, OK  
 Boer, James –Waco, TX  
 Bogers, Haley –Riverside, CA  
 Brandt, David –Tulsa, OK  
 Braun, Brandon –Broken Arrow, OK  
 Brey, Christopher –Scranton, PA  
 Brister, Bethy –Tulsa, OK  
 Brown, Colin –Claremont, CA  
 Brummett, Lilliann –Santa Barbara, CA  
 Bwiza, Conscience Princesse –Riverside, CA  
 Campbell, Emily –Cherryville, NC  
 Capone, Caralee –Beavercreek, OH  
 Case, Meagan –Catoosa, OK  
 Cassidy, Donna –Providence, RI  
 Cate, Sarah –Fort Smith, AR  
 Cevallos, Israel –Tulsa, OK  
 Chafin, Sam –Madison, MI  
 Chang, Arthur –Claremont, CA  
 Cholewa, David –Edmonton, AB  
 Chow, Cher –Wenham, MA  
 Church, William –Hartford, CT  
 Clapp, Megan –Austin, TX

*For more New Members, see page 4.*

## SETTING OUR WATCHES ON TULSA TIME, *from page 1*

Activities include a Friday mixer, morning devotions, a Saturday night BBQ picnic with a sand volleyball tournament, and Sunday worship. There will also be four pre-meeting field trips on Friday: (1) explore the geology around Tulsa at four locations and during lunch discuss petroleum geology, conventional energy reservoirs, and unconventional reservoirs (which to utilize require fracking); (2) tour the Coventa Energy-From-Waste facility and then after lunch visit the Tulsa Air and Space Museum; (3) visit the Philbrook Museum of Art and the Tulsa Historical Society Museum and after lunch continue on to the Gilcrease Museum, which focuses on Western Frontier and American Indian materials; or (4) spend Friday afternoon at Boston Avenue United Methodist Church, designed by female architect Adah Robinson in art deco style, and join a discussion with local church members who have similar interests to ASA/CWiS members. Sign up now for one of these field trips, or for Friday's pre-meeting Christianity and Science Workshop with Ted Davis and Bob Russell (see p. 4).

—Chris Matera, editor

# Hearing God's Voice in Nature

## PLENARY SPEAKERS:



### **Bethany Sollereeder**

Department of Materials Science Research Coordinator, Oxford University. PhD, Theology (2015), University of Exeter; MA, Christian Studies, Regent College, Vancouver; AB, Intercultural Studies, Vanguard College, Edmondton, Alberta. PhD thesis entitled "Animal Suffering in an Unfallen World: A Theodicy of Non-Human Evolution."

### **Alister McGrath**



Andreas Idreos Professor of Science and Religion, Oxford University. Author of many books including *The Foundations of Dialogue in Science and Religion*, *A Scientific Theology, Volumes I, II, & III (Nature, Reality, & Theory)*, *The Science of God: An Introduction to Scientific Theology*, and *C. S. Lewis—A Life*. DPhil, Oxford University, research in molecular biophysics; DD, Oxford University, in historical and systematic theology. *Special note:* Alister's lecture will be pre-recorded, but he will join us live from England for a virtual Q&A session.



### **Esther Meek**

Professor of philosophy at Geneva College, Pennsylvania, and Visiting Professor of apologetics at Redeemer Theological Seminary, Dallas, TX. PhD, Philosophy, Temple University; MA, Humanities/Philosophy, Western Kentucky University; BA, Interdisciplinary Studies, Cedarville College, OH. Author of three books, including *Loving to Know: Introducing Covenant Epistemology*. Current project: *Contact with Reality: Polanyi's Realism and Its Value for Christian Faith*, forthcoming.

### **Amos Yong**



Professor of Theology and Mission, Fuller Theological Seminary. PhD, Religious Studies and Theology, Boston University; MA, History, Portland State University; MA, Christian History & Thought, Western Evangelical Seminary, Portland, OR. Formerly: Professor & Dean at Regent University School of Divinity, Virginia Beach, VA; Associate Professor of Theology at Bethel College, St. Paul, MN; Assistant Professor of Theology, Bethany College of the Assemblies of God, CA; Support Enforcement Officer for the Dept. of Social and Health Services of the State of Washington, Vancouver, WA.

# Hearing God's Voice in Nature

*2015 ASA Meeting in Tulsa, OK  
July 24-27, 2015*

## PRE-MEETING WORKSHOP

**Friday, July 24, 2015  
8:30 am-4:30 pm**

### **Christianity and Science: An Introduction to the Contemporary Conversation**

Featuring Edward B. (Ted) Davis, Distinguished Professor of the History of Science, Messiah College, Pennsylvania; and Robert J. Russell, Director of the Center for Theology and the Natural Sciences (CTNS), and Professor in Residence at the Graduate Theological Union at Berkeley, CA.

**The morning lectures:** Ted Davis traces the origin of the "conflict" view from historical scholarship, provides a historical perspective on several key issues on the Christianity-Science interface: creation, contingency, methodological naturalism, divine action (and the god-of-the-gaps), design, and theodicy. Ted's example of John Polkinghorne's work occupies the same niche in theological opinion as Bob Russell, our featured afternoon workshop leader.

**The afternoon lectures:** Bob Russell facilitates the discussion by offering some thoughtful answers to some of the crucial questions, addresses big bang cosmology, evolution & creation and evolution & theodicy, cosmic future, and resurrection and eschatology.

**Come engage in this pre-meeting workshop's science and religion dialogue this summer!**

## NEW MEMBERS LIST

*Continued from page 2*

Clements, Jessica –Tulsa, OK  
Cook, Cole –Corona, CA  
Cooper, Jensen –Locust Grove, OK  
Cortez, Joshua –Tulsa, OK  
Cotto, Selena –Tulsa, OK  
Craig, Jordan –Lawrence, KS  
Cutillo, Alicia –Pottstown, PA  
Daniel, Earnest –Cleveland Heights, OH  
Dantzler, Kathleen –Boston, MA  
Deetjen, Marc –Menlo Park, CA  
DeHoog, Rachel –Ontario, CA  
Del Valle, Andres –Lafayette, CA  
Depenthal, Johanna –Orlando, FL  
DeRosa, Alexander –Revere, MA  
Deutsch, William –Auburn, AL  
Dial, Amanda –Edmond, OK  
Diamond, Will –Pace, FL  
Dickson, Drew –Guelph, ON  
Doane, Kayla –Santa Barbara, CA  
Dobbins, Tom –Madison, WI  
Doll, Alyssa –Dillsburg, PA  
Donahue, John –Cranston, RI  
Doot, Cory –Palos Park, IL  
Duchaine, Kayla –Rockledge, FL  
Dunbar, Jonathan –Tulsa, OK  
Dussell, Matthew –Riverside, CA  
Dzingai, Tafadzwa –Tulsa, OK  
Dzurilla, Emily –Owasso, OK  
Edmondson, Joshua –Santa Barbara, CA  
Ellis, LaPhonso –Granger, IN  
Facio, Evelyn –Riverside, CA  
Fagbemi, Paul –Tulsa, OK  
Fauber, Daniel –Wenham, MA  
Fauss, Erik –Santa Barbara, CA  
Felix, Kylie –Wenham, MA  
Fetters, Kirk –Santa Barbara, CA  
Foster, Donald –Smithfield, RI  
Frankamp, Adam –Tulsa, OK  
Furdui, Semida –Riverside, CA  
Gaikwad, Jonathan –Jenks, OK  
Gardner, Bethany –Rochester, NY  
Garrett, Ben –Broken Arrow, OK  
Garrett, William –La Crescenta, CA  
Geng, Xianzhang –Alhambra, CA  
Gerick, Alyssa –La Porte, IN  
Gomez, Julian –Tulsa, OK  
Gonsalves, Renee –Santa Barbara, CA  
Gonzalez-Sanchez, Alfredo –Hialeah, FL  
Greinke, Stephanie –Oxnard, CA  
Greydanus, Heather –Fennville, MI  
Griggs, Roland –Wenham, MA  
Groot, Michael –Sturgen County, AB  
Hadick, Rebeckah –Oklahoma City, OK  
Hagen, Kharis –Tulsa, OK  
Hannus, Eva Marina –St Paul, MN  
Hanson, Sarah –Tulsa, OK  
Hardison, Jaclyn –Tulsa, OK  
Harper, Michelle –Mishawaka, IN  
Hedglin, Angelica –Pleasant Lake, IN  
Heilmann, Krista –East Setauket, NY  
Hendrickson, Joslyn –Mesa, AZ  
Henshaw, Timothy –Roanoke, VA  
Hickey, Sandi –Manchester, MA  
Hohenberger, Keely –Oklahoma City, OK  
Holfinger, Hannah –San Antonio, TX  
Holmgren, Jane –Roanoke, VA  
Holsing, Kindra –Aberdeen, SD  
Holsing, Joshua –Tulsa, OK  
Hook, Kathryn –Cincinnati, OH  
Hooks, Myra –Warsaw, IN  
Howe, Bryce –Tulsa, OK  
Hung, Chen-min –Claremont, CA  
Hunter, Alex –Longview, TX  
Inyange, Aurore –Riverside, CA  
Iverson, Aaron –Radnor, OH  
Jackson, Christa –Siloam Springs, AR  
Jarvis, David –Chicago, IL  
Joel, Christeena –Wenham, MA  
Johnson, Nicholas –Tulsa, OK  
Johnson, Wade –Fort Smith, AR  
Jones, Grace –Tulsa, OK  
Jordan, Timothy –Wakefield, MA  
Kalimba, Joan –Riverside, CA  
Kanelopoulos, Gabe –Tulsa, OK  
Kaneta, Laurie –Tulsa, OK  
Kapala, Jacob –Edwardsburg, MI  
Kautzmann, Camille –St Davids, PA  
Kinnard, Dalton –Chester, NJ  
Kinney, Ryan –Siloam Springs, AR  
Kolenbrander, Emily –Stanford, CA  
Krijgsman, Robert –Winchester, CA  
Kronk, Jerry –Fayetteville, TN  
Kuku, Tumininu –Monroe, LA  
Kvasnicka, Jacob –DeKalb, IL  
Kwak, Cheul Woo –Wheaton, IL  
LaCour, Nicholas –Cypress, TX  
Lamparter, Lauren –Santa Barbara, CA  
Landa, Ivan –Perris, CA  
Lane, Jeffrey –Gloucester, MA  
Lanferman, Jacob –Tulsa, OK  
Layzell, Tony –Lawrence, KS  
Le, David Thien –Waco, TX  
Le, Evelyn –Waco, TX  
Lee, Hye –Wenham, MA  
Lemus, Jeffrey –Reno, NV  
Leon, Michaelangelo –Harker Heights, TX  
LeVoir, Erin –Glendale, CA  
Li, Rebecca –Wenham, MA  
Lick, Ashley –Siloam Springs, AR  
Link, Matthew –Grand Rapids, MI  
Littleford, Kirsti –Tulsa, OK  
Liu, Yang –Waco, TX  
Lloyd, Emily –Amesbury, MA  
Loewen, Keelaina –Sylvan Lake, AB  
Logan, Emmanuel –Tulsa, OK  
Lommers-Johnson, Tess –Claremont, CA  
Longo, Angela –Malibu, CA  
Lutz, Abigail –Wenham, MA  
Macias, Yvette –Corona, CA

*More New Members, see page 5.*



## MEMBERS IN GLORY

**Richard Sidney Beal Jr.**, 98, a longtime member of ASA and “a sinner saved by grace,” entered into the presence of our Lord on January 29, 2015. He was born in Victor, Colorado, in 1916, and spent much of his young life in Arizona. Dick met his wife Wilma (Billie) Gibbons of Tucson, marrying her in 1941, the same year he entered the ministry, becoming pastor of the Grace Baptist Church in Phoenix, then of the First Baptist Church of Flagstaff, AZ.

His career journey as an academic began in 1947 when, convinced that God had given him teaching gifts rather than those for the pastorate, he entered academia as a professor at Westmont College in Santa Barbara, CA. In 1948, he moved to the Bay Area (CA) for a teaching position at San Francisco Baptist College, and began working on his doctoral degree at UC Berkeley in entomology. After completing his PhD, he taught systematic theology at Denver Seminary. From 1956–1958 he worked as a research entomologist for the U.S. Department of Agriculture with assignment to the Smithsonian Institution. In 1958 he became professor of zoology in Arizona State University and then was transferred in 1962 to Northern Arizona University (NAU), where in 1965 he became Dean of the Graduate College and Research, a position he held until he retired from NAU in 1983.

After the death of Billie, he married his longtime friend Evorine Brewer in 1987. They moved to Lakewood, CO, where they both were on the faculty of Colorado Christian University until their retirements in 1994.

In his retirement, Dick enjoyed studying beetles, including publishing several articles in scientific journals, and authored four books. His greatest delight came in teaching the Bible.

He was preceded in death by his wife Billie in 1986 and his son Richard III. He is survived by his beloved wife Evorine of East Wenatchee, WA; his sister Margaret Ryan of Riverside, CA; and his younger son Andrew of Denver, CO; three stepchildren, and several grandchildren and great-grandchildren.

**C. Henry “Hank” Bradley** of Windsor Park, Carol Stream, Illinois, passed away at the age of 83 on August 18, 2014. He was born and grew up in Baltimore. He left Baltimore to attend Wheaton College (IL), graduating in 1953. He went on to earn an MA in biblical literature at Wheaton, and then completed linguistic training at the Summer Institute of Linguistics with his wife “Bobbi,” also a Wheaton College graduate.

Hank and Bobbi joined Wycliffe Bible Translators, spending 25 years with the Mixteco Indians of southern Mexico. During this time, Hank earned advanced degrees in linguistics and anthropology. Hank later taught anthropology at Judson College in Elgin, IL, and served as the international anthropology coordinator for Wycliffe and SIL sponsored by Wycliffe in Dallas, TX. In 1999 the couple moved to Wheaton to be near family where

*For more Members in Glory, see page 6.*

## NEW MEMBERS LIST

*Continued from page 4*

Magee, Erin –Wenham, MA  
 Mahabali, Michael –Tulsa, OK  
 Mallino, Mandy –Tulsa, OK  
 Marsh, Nicole –Santa Barbara, CA  
 Marshall, Adam –Langley, BC  
 Marsilla, Joseph –Richmond Hill, ON  
 McCarthy, Thomas –Tulsa, OK  
 McClellan, Rebecca –Boones Mill, VA  
 McGinnis, Jennifer –Temecula, CA  
 McKee, Cheyenne –Tulsa, OK  
 Menzer, Seth –Sheboygan Falls, WI  
 Meyers, Hunter –Farmington, MN  
 Miller, Rachel –Grabill, IN  
 Miller, Kylie –Davis, CA  
 Miner, Kimberly –Monroeville, IN  
 Moffat, Branden –Hamilton, ON  
 Mora, Genesis –Tulsa, OK  
 Morabito, Linda –Victorville, CA  
 Morasse, Jonathan –Rochester, NY  
 Muñoz, Josh –Tulsa, OK  
 Mullins, Ean –Wenham, MA  
 Munezero, Daniella –Riverside, CA  
 Nash, Laura –Ruther Glen, VA  
 Nash, William –Roanoke, VA  
 Nemat, David –Waco, TX  
 Nguyen, Chau –Riverside, CA  
 Nord, Marie –Tulsa, OK  
 Nsien, Kayla –Tulsa, AL  
 Ntwali, Gaju –Riverside, CA  
 Nun, Ning –Indianapolis, IN  
 O’Connell, Erika –Azusa, CA  
 O’Dell, Sarah –La Verne, CA  
 Olsen, Meredythe –Tulsa, OK  
 Olson, Andrew –Menlo Park, CA  
 Ooms, Kristopher –Edmonton, AB  
 Ophus, Chase –Broken Arrow, OK  
 Owens, Bryant –Cathey’s Valley, CA  
 Palmer-Hague, Jaime –Langley, BC  
 Pangkee, Jacklyn –Riverside, CA  
 Pankratz, Naomi –Mission, TX  
 Parr, David –Brookline, NH  
 Parsons, Jeremy –Hamilton, ON  
 Patel, Viral –Corona, CA  
 Patrick, Austin –Wheaton, IL  
 Penix, Phoebe –Junction City, OR  
 Peters, Natalie –Tulsa, OK  
 Peterson, Leif –Tulsa, OK  
 Phan, Eugenia –Tulsa, OK  
 Pierson, Sarah –Fort Worth, TX  
 Place, Joshua –Siloam Springs, AR  
 Poutsma, Marvin –Oak Ridge, TN  
 Powell, Jason –Callaway, VA  
 Pratt, Faith –Tulsa, OK  
 Preston, Markus –Trångsund,  
 Stockholm, Sweden  
 Ragodo, Giannina –Mount Laurel, NJ  
 Ratzlaff, Christian –Tulsa, OK

*More New Members, page 6.*



## MEMBERS IN GLORY, *continued from page 5*

after the death in 2001 of his wife Bobbi, Hank married, in 2003, a Wheaton College classmate, Grace Woodberry, whose parents had served as missionaries in China.

Hank joined the ASA in 1962. He is survived by Grace, his second wife, and five sons, Charles of Wheaton, IL; Dave of Kenya, Africa; Mark of Wheaton, IL; Eric of Elgin, IL; and Scott of Wheaton, IL; as well as many grandchildren and great-grandchildren.

**Franklin H. Harris Jr.** passed away in Carol Stream, Illinois, on October 2, 2014, at the age of 96. An ASA member since 1958, he worked for many years at the Naval Research Lab (NRL) and later taught at Wheaton College (IL). Franklin was born in East Orange, NJ. He grew up in Glen Ridge, NJ, graduated from Newark College of Engineering, and entered the Navy during World War II. He married Leslie Woodruff in 1943, and the couple moved to Washington, DC. His earlier work was instrumental in developing patents at NRL in radar technology for defense, and his later work advanced technology on many fronts through commercial use in storage tube oscilloscopes. He enjoyed a wide range of interests, and also served on short-term mission trips to radio station HCJB in Ecuador. He was preceded in death by his wife Leslie, as well as his second wife Karen (Lizner). He is survived by five children as well as many grandchildren and great-grandchildren.

**Barbara A. (“Barb”) Pursey**, died peacefully in her home on May 21, 2014, in Dubuque, Iowa, with her husband and son at her bedside. She was 84. She was a founding board member of the Presbyterian Association on Science, Technology and the Christian Faith (PASTCF). Barb was born in Los Angeles, CA, in 1929, and received her BS and PhD at the University of California there. She taught at Cal State University at Northridge until she married Derek Pursey in 1962. The Purseys moved to Glasgow, Scotland, for two years, where Barb worked as a post-

*For more Members in Glory, see page 7.*

## NEW MEMBERS LIST

*Continued from page 5*

Rempel, Christine –Wayne, PA  
 Renken, Corbin –Wheaton, IL  
 Rice, Austin –Loma Linda, CA  
 Riesling, Anne –Langley, BC  
 Rivas-Perea, Pablo –Waco, TX  
 Robbins, Carrissa –Broken Arrow, OK  
 Roberson, Tanya –San Antonio, TX  
 Roberts, Chris –Jenks, OK  
 Rodriguez, Carlos –Virginia Beach, VA  
 Rowan, Shane –Santa Barbara, CA  
 Roy, Charles –Bangor, ME  
 Rudd, Sarah-Jane –Corona, CA  
 Rumsey, Brian –Manhattan, KS  
 Rusokoff, Megan –Riverside, CA  
 Ruth, Joshua –Akron, PA  
 Saavedra, Viviana –Rialto, CA  
 Saeva, Maria –Scottsville, NY  
 Sanchez, Kayla –Riverside, CA  
 Sandjaja, Iwan –Waco, TX  
 Sanganyado, Edmond –Riverside, CA  
 Scarlett, Michael –Claremont, CA

Schoppen, Jordan –New Lenox, IL  
 Schwartz, Hannah –Weatherford, TX  
 Seaman, Kevin –Wheaton, IL  
 Seibert, Christine –Ipswich, MA  
 Semlitch, Steve –Langley BC  
 Sharma, Sushil –Narela, Delhi, India  
 Shiflett, Adrienne –Roanoke, VA  
 Shiflett, Audrey –Rocky Mount, VA  
 Sibole, Thomas –Beaumont, CA  
 Sideras, James –Waltham Abbey, Essex, UK  
 Silva, Ilana –Tulsa, OK  
 Silva, Yoana –Riverside, CA  
 Skead, Charlenn –Langley, BC  
 Slater, Allison –Riverside, CA  
 Smith, Katie –Tulsa, OK  
 Smith, Benjamin –Highlands Ranch, CO  
 So, Jiin –Wenham, MA  
 Spoonhour, Josh –Greencastle, PA  
 Stafford, Chase –Petaluma, CA  
 Steele, Michala –Tulsa, OK  
 Stoll, Larry –Clifton Park, NY  
 Stolz, Cody –Tulsa, OK  
 Story, Peter –Ipswich, MA  
 Strickland, Warren –Roanoke, VA

Sue, Christopher –Santa Barbara, CA  
 Surniawan, Christian –Surrey, BC  
 Szucs, Tristan –Langley, BC  
 Taguinod, Andrea –Anaheim, CA  
 Talbott, Donna –Siloam Springs, AR  
 Tamez, Isaac –Siloam Springs, AR  
 Taylor, Hayley –Beverly, NJ  
 Tepper, Taylor –Mishawaka, IN  
 Thomale, Daley –Riverside, CA  
 Thomas, Blake –Tulsa, OK  
 Tillmon, Tezlynn –Tulsa, OK  
 Tolsma, Daniel –Orange City, IA  
 Tolsma, Joseph –Orange City, IA  
 Tong, Jason –Santa Barbara, CA  
 Treat, Logan –Hudsonville, MI  
 Troche, AJ –Tulsa, OK  
 Troy, Willis –Waco, TX  
 Truscott, Jessica –Red Lion, PA  
 Turnbull, Dennis –Norco, CA  
 Vasques, Calvin –Pearl City, HA  
 Vaughn, Jeffre –Murphy, NC  
 Venegas, Emily –La Habra, CA  
 Waite, Luke –Tulsa, OK  
 Walker, Erin –Wenham, MA

*More New Members, page 8.*



## MEMBERS IN GLORY, *continued from page 6*

doctoral research fellow in chemistry at Glasgow University. Moving to Ames, IA, Barb did postdoctoral research at Iowa State University until their son was born in 1970. When her husband retired from teaching at Iowa State University, the family moved to Dubuque, IA. By then, Barb had earned her MDiv from the University of Dubuque Theological Seminary (UDTS), where she also taught mostly Christian formation courses into the mid-1990s. For working as a spiritual director at the UDTS, Barbara received further training at Pecos Benedictine Monastery in New Mexico.

Barb joined ASA in 1989. She is survived by her husband Derek (Emeritus Professor of Physics and Astronomy, ISU), son John (Eva), and two grandsons.

**Charles Hard Townes**, 99, passed away in Oakland, California, on January 27, 2015. Charles Townes was a member and friend of ASA for over 13 years, signing up in 2001. He was an ASA advisory board member and a plenary speaker at the 2002 ASA Annual Meeting at Pepperdine University in Malibu, CA.

Townes was born in Greenville, South Carolina. Charles was a gifted student with wide interests, including entomology and ornithology. He graduated from Furman University in Greenville with a BS in physics and a BA in modern languages. He received his MA in physics from Duke University, and his PhD from California Institute of Technology in 1939. He worked for Bell Labs (the research wing of AT&T) in New Jersey, between 1939 and 1948, and in 1948 he was named the executive director of the Radiation Laboratory at Columbia University in New York, becoming full professor in 1950 and head of the physics department, 1952–1955.

In 1951 he had an “aha” moment while sitting on a park bench in Washington, DC, and he and his students from Columbia University worked his ideas into a device that was called a maser (microwave amplification by stimulated emission of radiation). He and his brother-in-law Arthur Schawlow designed a similar device using shorter light waves, named a laser (light amplification by stimulated emission of radiation). During the 1960s Townes taught at MIT, becoming provost and professor of physics. He shared the Nobel Prize in 1964 with Nikolai G. Basov and Aleksandr M. Prokhorov of the Lebedev Institute for Physics in Moscow, who at the same time had been working on a maser. In 1967 he became University of California Professor at Large, based on the UC Berkeley campus.

In a lab, staffed by mainly students, Townes developed infrared astronomy, and helped discover in 1985 the first evidence of a black hole in the middle of the Milky Way. He taught, performed research, and participated in other activities on several of the UC campuses, though based at Berkeley, and continued to visit the UC Berkeley campus daily in his late nineties, at either his office or the Space Science Laboratory up through 2014.

In 2005 Townes became the Templeton Prize Laureate. Beginning in the 1950s, he had declared that religion and science were not antithetical, and spoke of the convergence of these two realms. When accepting the Templeton Prize, he stated that “while science and religion may seem different, they have many similarities, and should interact and enlighten each other. They certainly can appear quite different, but basically ... are closely related.”

In 2006, Charles Townes was honored in his native town of Greenville, South Carolina, by the dedication of a statue, of him sitting on a park bench, representing the moment when he scribbled down his equations necessary for the invention of the maser.

A member of a Congregational church in Berkeley and of the board of directors of the Center for Theology and the Natural Sciences for many years, Townes leaves behind his wife of over 70 years Frances (Brown) Townes, daughters Holly, Linda, Ellen, and Carla, six grandchildren, and two great-grandchildren.



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## NEW MEMBERS

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Wang, Xin –Pasadena, CA  
Warber, Cynthia –Grand Blanc, MI  
Watson, Gayle –Wenham, MA  
Watson, Jesse –Edmonton, AB  
Watters, James –Tucson, AZ  
Weaver, Kathryn –South Bend, IN  
White, Noel –Mount Dora, FL  
Whitlow, Andrew –Osceola, IN  
Williamson, Ryan –Wenham, MA  
Wilson, Iain –Sentani, Papua, Indonesia  
Wong, Christopher –Santa Barbara, CA  
Wong, Dominic –Edmonton, AB  
Wong, Jeannie –Moreno Valley, CA  
Woo, Soohan –Wayne, PA  
Woodring, Jessie –Wenham, MA  
Wurah, Ravi –Bronx, NY  
Yates, Rachel –Tyler, TX  
Young, Cameron –Temecula, CA  
Zamarron, Thelzy –Tulsa, OK  
Zeldenrust, Jon –Oronoco, MN

