

PRE-MEETING ACTIVITIES

WEDNESDAY, 25 JULY 2018		
3:00 PM–10:00 PM	ASA Meeting and Lodging Registration	Special Arrangement

THURSDAY, 26 JULY 2018		
1:00 PM–10:00 PM	ASA Meeting and Lodging Registration	Ken Olsen Science Center (KOSC) Loggia
5:00 PM–12:00 AM	Red Sox Game	Meet at the circle drive by A J Memorial Chapel

FRIDAY, 27 JULY 2018		
7:00 AM–8:00 AM	Breakfast	Lane Student Center
8:00 AM–8:30 PM	ASA Meeting and Lodging Registration	KOSC Loggia
8:00 AM–5:00 PM	Exhibit and Book Room Set-Up	KOSC Loggia
8:00 AM–8:30 PM	Poster Set-Up	KOSC Walkway
8:45 AM–1:00 PM	Field Trip: MIT Lab *	Meet at the circle drive by A J Memorial Chapel
9:00 AM–12:00 PM	Workshop: Science for Service: Diagnostics for the Developing World Alyne MacLean , facilitator	KOSC 214
9:00 AM–1:30 PM	Field Trip: Halibut Point/Rockport Geology Tour *	Meet at the circle drive by A J Memorial Chapel
11:30 AM–1:30 PM	Lunch	Lane Student Center
12:45 PM–5:00 PM	Field Trip: Cape Ann Whale Watch *	Meet at the circle drive by A J Memorial Chapel
2:00 PM–5:00 PM	Workshop: Reworking the Science of Adam S. Joshua Swamidass , facilitator	KOSC 107

* Please arrive 15 minutes before departure time.

PROGRAM SCHEDULE

FRIDAY, 27 JULY 2018		
5:15 PM 6:30 PM	Dinner	Lane Student Center
5:15 PM 6:30 PM	First-Time Attendees Dinner Meetup	Lane Student Center
7:00 PM 7:30 PM	Welcome, Introductions, Announcements <ul style="list-style-type: none"> • Leslie Wickman, ASA Executive Director • Vicki Best, ASA Director of Operations and Development • D. Michael Lindsay, Gordon College President • Janel Curry, Gordon College Provost • Sharon Carlson and Susan Gross, Local Arrangements Cochairs • Michael Paul, Program Chair 	KOSC 104
7:30 PM 8:30 PM	Plenary I Douglas A. Lauffenburger , “Humanizing Therapeutics Discovery” Moderator: Randy Isaac	KOSC 104 (8)
8:30 PM 10:00 PM	Mixer	KOSC Loggia/Chairman’s Room
10:00 PM	Psalm 19 Astronomy Event (weather permitting)	Quad
10:00 PM	ASA Meeting and Lodging Registration closes	KOSC Loggia

PLEASE NOTE: Abstracts are found on the page numbers within the parentheses.

SATURDAY, 28 JULY 2018				
6:00 AM	Morning walk led by Davey Walters , an award winning founding member of the Massachusetts Young Birders Club; all are welcome			Meet at KOSC Parking Lot
7:00 AM	Breakfast			Lane Student Center
7:00 AM	Christian Women in Science (ASA Affiliate) Breakfast Meetup—All women are invited			Lane Student Center
8:15 AM	ASA Registration Table			KOSC Loggia
8:20 AM	Devotions. Devotional: Janel Curry Worship Leader: Steve Kercher			KOSC 104
8:45 AM 9:45 AM	Plenary II Nigel M. de S. Cameron , “A Human Century?” Moderator: Stephen Moshier			KOSC 104 (8)
9:45 AM 5:15 PM	Poster Viewing			KOSC Walkway
9:45 AM	Exhibit and Book Room			KOSC Loggia
9:45 AM	Beverage Break			KOSC Loggia
10:15 AM 11:45 AM	I.A: Modern Biotechnology I —KOSC 104 Moderator: Craig Story	I.B: Digital Technology I —KOSC 107 Moderator: Tim Wallace	I.C: Evolution Pedagogy —Jenks 237 Moderator: Kathryn Applegate	I.D: Student/Early Career Track 1 —Jenks 226 Coordinators: Tom Grosh and Hannah Eagleson
10:15 AM	Wayne K. Dawson (11) “How Can Entropy Play a Major Role in Promoting Natural Selection?”	Terry M. Gray (11) “Electronic Waste (E-waste)”	Mark A. Strand (11) “Teaching Evolution to Young-Earth Trained High School Sunday School Students”	Now What? Choosing Next Career Steps (11)
10:45 AM	Robin Pals Rylaarsdam (12) “CRISPR Ethics: New Challenges, or Nothing New under the Sun?”	Timothy P. Wallace (12) “A Christian Response to the Good, Bad, and Improbable Predictions of Artificial Intelligence Futurists”	Kathryn Applegate (12) “BioLogos INTEGRATE: New Christian Worldview Supplement for High School Biology”	Don’t Leave Undergrad without It: Wisdom for Thriving in Science (12)
11:15 AM	Daniel B. Dorman (13) “Developments in Optogenetic Neuro-modulation and Their Ethical Implications”	Timothy Opperman (13) “A Technoethical Approach to Original Sin: Will Robots Sin?”	Tony Jelsma (13) “Using a ‘Reacting to the Past’ Game to Teach Faith and Science in an Origins Class”	Speed Mentoring for Undergraduates (13)
11:45 AM	Lunch			Lane Student Center
11:45 AM	Student/Early Career Lunch Meetup			Lane Student Center
1:15 PM 2:45 PM	II.A: Modern Biotechnology II —KOSC 104 Moderator: James Peterson	II.B: Engineering and Appropriate Technology I —KOSC 107 Moderator: Ian Hutchinson	II.C: Faith and Science Education I —Jenks 237 Moderator: George Murphy	II.D: Student/Early Career Track 2 —Jenks 226 Coordinators: Tom Grosh and Hannah Eagleson
1:15 PM	Vincent Ling (14) “Biotechnology and the Cost of Medicine: A Crisis in Pharmaceutical Innovation?”	William Jordan (14) “Teaching Sustainable Engineering Topics in a Required Materials Engineering Class”	Kristen Mudrack (14) “Chemistry and Society: Integration of Faith and Science in General Education”	Generating Great Ideas in Academia and Science Careers (14)
1:45 PM	James C. Peterson (15) “Should Caregivers Risk Their Lives for Their Patients? The SARS Epidemic in Toronto as a Test Case”	Richard E. Denton (15) “Communicating the Bible to All the World”	Gladys Kober (15) “High School Curriculum: <i>The Crossroads of Science and Faith: Astronomy through a Christian Worldview—Outreach Phase</i> ”	Networking for the Common Good (15)
2:15 PM	Loren A. Martin (16) “The Coming Age of Human Life Extension: Exploration of Attitudes on Life-Extending Interventions in Separate Samples of Younger and Older Adults”	Kirk Bertsche (16) “An Overview of Radiation Therapy”	Ed LaBelle (16) “The Heavens Declare the Glory of God: Sidewalk Astronomy Evangelism”	Speed Mentoring for Graduate Students and Early Career Professionals (16)

2:45 PM 3:45 PM	Poster Session				KOSC
	<ol style="list-style-type: none"> 1. Rachel Allison, “Caring While Carrying: How Do Social and Moral Constraints Affect Physical Motion?” (30) 2. Lian Atlas, “(gc)²: Gordon College’s Commitment to Green Chemistry” (30) 3. Andrea Casazza, “Geology and Landscape: The Key Factors for the Inscription of the Italian Dolomites in the UNESCO World Heritage List” (30) 4. Verna Curfman, “How Green Chemistry Can Impact Social Justice Education” (30) 5. Mollie Enright, “Changing the Course of Chemistry: Adopting the Green Chemistry Commitment” (31) 6. Fraser Fleming, “Fostering Creativity” (31) 7. Esita Harper, “A Promising Virus” (31) 8. Joanna Klein, “A Teaching Strategy to Address Origins in a Microbiology Course for Nonmajors at a Christian University” (31) 9. Thomas Larkin, “Genesis and Evolution” (32) 10. Zachary Merhavy and Cheney Huls, “Antibacterial Activity of Selected Plants from Southwest USA” (32) 11. Amanda Page, “Using FRET to Elucidate the Lipid Trafficking Mechanism of SP-B C and N Terminal Peptides in Comparison with KL₄” (32) 12. Grace Peppler, “Remote Respiratory Allergen Challenge Increases the Frequency of Small Intestinal Eosinophils in Allergen-Sensitized Mice” (32) 13. Julie Reynolds, “For Everything There Is a Season: Molecular Regulation of Insect Diapause” (33) 14. Daisy Savarirajan, “Microbiology through the Lens of the Bible: Antimicrobial Products from Sonoran Desert Plants” (33) 15. Craig Story, “Developing Optimized Sortases for Investigating Cellular Trafficking in Animal Models” (33) 16. Janelle Veazey, “Protein Kinase D3 Strengthens Barrier and Mounts an Early Innate Immune Defense Against Invading Respiratory Infections” (33) 17. Ramesh Velupillaimani, “God’s Solar Cells: Light-Harvesting Role of β-carotene in the Photosystem I of Eukaryotic <i>Chlamydomonas Reinhardtii</i> Cells” (34) 				
2:45 PM	Refreshment Break				KOSC Chairman’s Room
3:45 PM 5:15 PM	III.A: The Big Picture –KOSC 104 Moderator: David Larrabee	III.B: Digital Technology II –KOSC 107 Moderator: Tim Wallace	III.C: Biology and the Problem of Evil –Jenks 237 Moderator: John Wood	III.D: Local Chapters Seminar –Jenks 226 Coordinators: Leslie Wickman and Vicki Best	
3:45 PM	Loren Haarsma (17) “Beyond the Free Will Defense: Natural Evil, Theodicy, and Sacrificial Love”	Isac Artzi (17) “Interacting with the Bible Using Artificial Intelligence and Virtual Reality”	Oscar Gonzalez (17) “Were Parasites Mutualistic at the Beginning?”	Overview of Local Chapters Program (17)	
4:15 PM	James D. Sideras (18) “The Need for Generation Z Christian Apologetics”	Paul H. Carr (18) “Helping the 33%: Automation-Displaced Workers”	John R. Wood (18) “Wholeness and Ecosystems: The Functionality of Fear”	Chapter Leaders Panel Discussion (18)	
4:45 PM	David Larrabee (19) “Being a Scientist and a Christian: Lessons from Religious Dual Belonging”	David C. Winyard Sr. (19) “Christianity, Transhumanism, and Techno-Syncretism”	F. Allen Dray Jr. (19) “Biological Control of Weeds: Reconstituting God’s Plan”	Planning Workshop (19)	
4:45 PM	ASA Registration Table closes				KOSC Loggia
5:15 PM	Exhibit and Book Room closes				KOSC Loggia
5:15 PM	Parallel Session III ends				
5:30 PM	Clambake • Leslie Wickman and Vicki Best —Welcome and Prayer				Quad
7:30 PM 9:00 PM	Plenary III Welcome and Introduction: Vicki Best and Leslie Wickman Francis S. Collins , “The Joyful Complementarity of Science and Faith”				A J Gordon Memorial Chapel (10)
9:00 PM 11:00 PM	Coffee House BioLogos Reception Special Music by Francis Collins and Ciara Reyes				KOSC Loggia/Chairman’s Room
9:00 PM 10:30 PM	Exhibit and Book Room				KOSC Loggia

SUNDAY, 29 JULY 2018				
6:30 AM	Morning walk led by Dorothy Boorse , wetland ecologist; all are welcome			Meet at KOSC Parking Lot
7:30 AM	Breakfast			Lane Student Center
7:30 AM	Engineers Breakfast Meetup—All engineers are invited			Lane Student Center
9:30 AM 10:30 AM	Worship Service Worship Leader: Steve Kercher Minister: Sean McDonough , Professor of New Testament at Gordon-Conwell Theological Seminary Offering supports Science with a Mission, Inc.			KOSC 104
10:30 AM	ASA Registration Table			KOSC Loggia
10:30 AM 5:15 PM	Poster Viewing			KOSC
10:30 AM	Exhibit and Book Room			KOSC Loggia
10:30 AM	Beverage Break			KOSC Chairman's Room
11:00 AM 12:00 PM	Plenary IV Noreen Herzfeld , "Cybernetic Enhancement and the Problem of the Self" Moderator: Judith Toronchuk			KOSC 104 (9)
12:00 PM	Lunch			Lane Student Center
12:00 PM	CSCA Lunch Meetup			Lane Student Center
1:15 PM 2:45 PM	IV.A: Evolutionary Ideas I —KOSC 104 Moderator: Sy Garte	IV.B: Modern Bio-technology III —KOSC 107 Moderator: Heather Prior	IV.C: Faith and Science Education II —Jenks 237 Moderator: Michael Paul	IV.D: Engineering and Appropriate Technology II —Jenks 226 Moderator: Gayle Ermer
1:15 PM	Denis O. Lamoureux (20) "Intelligent Design Theory: The God-of-the-Gaps Rooted in Concordism"	David L. Dornbos Jr. (20) "Transgenic Crops Perpetuate an Unsustainable and Unjust Food System"	George L. Murphy (20) "Teaching Faith and Science without Losing Souls"	Gayle E. Ermer (20) "What Does It Mean to Offer a Distinctively Christian Engineering Program? A Comparative Analysis of Program Educational Objectives"
1:45 PM	Randy Isaac (21) "In Defense of Theistic Evolution"	Heather Prior and Christianna Czyn (21) "Mind the Gap: Christian Faith in Decisions about Fertility Treatments"	Dominic Halsmer and Philip Riegert (21) "Science as a Mediator Between Religions"	Jessica D. Ventura (21) "A Low-Cost Bodyweight Support Training System to Improve Gait"
2:15 PM	James Stump (22) "Did God Guide Evolution?"	Benjamin Padilla (22) "Toward Standardization in Landscape Gradient Definition"	Effat Zeidan (22) "The Power of Praise and Encouragement in a Nontraditional Online Learning Environment"	Mark McEwan (22) "Asymmetrical Partnership: Models of Science and Religion Revisited"
2:45 PM	Refreshment Break			KOSC Loggia
3:15 PM 5:15 PM	V.A: Medical and Clinical Issues —KOSC 104 Moderator: Jim Johansen	V.B: Culture, Science, and Faith —KOSC 107 Moderator: Edward B. Davis	V.C: Faith and Science Education III —Jenks 237 Moderator: Hal Poe	V.D: Physical Sciences I —Jenks 226 Moderator: Kirk Bertsche
3:15 PM	David Sabapathy (23) "The Unexamined Life of Public Health"	Edward B. Davis (23) "How Liberal Protestants Bought White's Conflict Thesis and Lost Their Faith"	Andrew Walsh (23) "Beaming Science Fiction into the Science and Faith Conversation"	Phyllida Drummond (23) "The Problem of Faith in an Emergent World"
3:45 PM	Jim Johansen (24) "Insights from Sample Human Genome GWAS and Epigenome EWAS Projects"	Arie Leegwater (24) "Science, Culture, and Belief [Thomas Kuhn's Legacy]: Some Christian Reflections"	Jimmy Davis and Harry Poe (24) "Toward Thinking about Science from a Faith Point of View: Elements of a Strategy"	Matthew Solt (24) "A Brief Guide to Observing Invisible Matter"

4:15 PM	Beate Peter (25) “Babble Boot Camp: Preventing Speech and Language Disorders in Infants at Genetic Risk”	Patricia Fitzgerald-Bocarsly and Andrew B. Bocarsly (25) “The Science/Faith Dialogue in the Local Church: A Leap of Faith”	Jennifer Noseworthy (25) “Engaging Science and Faith in Core Science Curriculum at Gordon College”	Stephen Moshier (25) “Continents Did Not Sprint”
4:45 PM	Breanne Parets (26) “Physician-Assisted Suicide: An Examination of Ethics and Dignity at the End of Life”	Walter Bradley (26) “What, If Anything, Might Near-Death Experience Tell Us about Life after Death?”	Walter A. Rogero II (26) “Framing Faith and Science Conversations Effectively”	Alan Dickin (25) “New Geological and Historical Evidence for the Date of Noah’s Flood”
5:00 PM	ASA Registration Table closes			KOSC Loggia
5:15 PM 10:00 PM	Posters taken down			KOSC Hallway
5:15 PM	Exhibit and Book Room closes			KOSC Loggia
5:15 PM	Dinner			Lane Student Center
5:15 PM	Geologists Dinner Meetup—All geologists are invited			Lane Student Center
5:30 PM	Volleyball Tournament			Volleyball Lawn Court
6:30 PM	Softball Game			Softball Field
8:15 PM	State of the ASA Presenters: Leslie Wickman, Stephen Moshier, Vicki Best			KOSC 104
9:30 PM	InterVarsity Reception			KOSC Loggia/Chairman’s Room
9:30 PM	Ice Cream Social			KOSC Loggia/Chairman’s Room
9:30 PM 10:30 PM	Exhibit and Book Room			KOSC Loggia

Congratulations, Long-Time Member Attendees!

We appreciate your faithful commitment to the ASA.

61 years

John W. Haas Jr.
Robert L. Herrmann

55–57 years

John E. Richardson
Richard T. Wright

50–54 years

David S. Barnes
Clarence Menninga
L. William Yoder

47–49 years

Ann H. Hunt
Martin L. Price
David A. Saunders
Robert E. Sundell

45–46 years

Walter L. Bradley
Russell R. Camp
Davis A. Young

40–44 years

Paul T. Arveson
Bryce A. Babcock
Lynn A. Braband
Del L. Coon
Edward B. Davis
Dillard W. Faries
Earl W. Godfrey
Randall D. Isaac
Jay L. Hollman
Robert Kaita
George L. Murphy
Ronald T. Myers
Lyle B. Peter
Willard H. Roundy Jr.
Jeffrey P. Schloss
Bruce W. Schweitzer
John R. Wood
Kurt A. Wood

MONDAY, 30 JULY 2018			
6:00 AM	Morning walk; all are welcome		Meet at KOSC Parking Lot
7:00 AM	Breakfast		Lane Student Center
7:00 AM	Breakfast Meetup: Legacy Giving Discussion with Leslie Wickman and Vicki Best		Lane Student Center
8:15 AM 10:00 AM	Lodging Check out at the ASA Registration Table (luggage storage available)*		KOSC Loggia
8:20 AM	Devotions. Devotional: Robert Geddes Worship Leader: Steve Kercher		KOSC 104
8:45 AM 9:45 AM	Plenary V Jeffrey P. Schloss , "The Question of Purpose in the Living World: Does Evolution 'Lead to Love'?" Moderator: Craig Story		KOSC 104 (9)
9:45 AM	Exhibit and Book Room		KOSC Loggia
9:45 AM	Beverage Break		KOSC Loggia/Chairman's Room
10:15 AM 11:45 AM	VI.A: Creation Care Moderator: Dorothy Boorse -KOSC 104	VI.B: Evolutionary Ideas II Moderator: Sy Garte -KOSC 107	VI.C: Physical Sciences II Moderator: Randy Isaac -Jenks 226
10:15 AM	Dorothy Boorse (27) "Creation Care and Environmental Justice: Closing the Concern Gap in the Area of Climate Change"	Sy Garte (27) "Intrinsic Biological Intelligence and Design"	Dillard W. Faries (27) "Causality/Teleology Symmetry in Quantum Mechanics"
10:45 AM	Robert D. Sluka (28) "An Ocean of Plastic Hope"	David Buller (28) "Evolution and the Pursuit of Beauty"	Chris Mulherin (28) "Balls, Strikes, and Truth in a Postmodern World: Holding On to Robust Truth Even When We Can't Be Certain"
11:15 AM	Parallel Session VI ends		
11:15 AM	ASA Registration Table closes		KOSC Loggia
11:30 AM	Exhibit and Book Room closes		KOSC Loggia
11:30 AM	Lunch		Lane Student Center

* You must be checked out of the residence halls by 10:00 AM

POST-MEETING ACTIVITY

MONDAY, 30 JULY 2018		
12:30 PM 5:30 PM	Harvard Museum *	Meet at the circle drive by A J Memorial Chapel

* Please arrive 15 minutes before departure time.