

# GENERAL INFORMATION

## ASA/CSCA/CiS Exhibit Room and Book Room

We are pleased to welcome the following exhibitors to our meeting: A Rocha Canada, AAAS, ASA, BioLogos, CiS, CSCA, Christian Studies International, Hamilton Area Science and Religion Forum, InterVarsity Christian Fellowship, Reasons to Believe, and The Faraday Institute. They are located in room 1115 of the Michael DeGroot Learning Centre (MDLC).

We thank Jackie Childerhose of Grand River Spiritual and Educational Resources for providing the book service for us. Book tables featuring books of interest to attendees are in room 1116, MDLC.

Exhibit Room and Book Room hours are as follows:

Saturday: 9:00 AM – 5:00 PM  
Sunday: 10:30 AM – 5:00 PM  
Monday: 9:00 AM – 12:00 PM

## Campus ATM Machine

There is one located in the Commons Building lobby.

## Plenary Sessions

All plenary sessions will be held in the Michael DeGroot Learning Centre (MDLC), room 1307.

Friday: 7:15 PM Megan Best, “Brave New World”  
Saturday: 8:45 AM Don Page, “The Optimal Argument for the Existence of God”  
7:15 PM Barth Netterfield, “Astrophysics: The Heavens Declare the Glory of God”  
Sunday: 11:00 AM Alasdair Coles, “Broken Brains and Christ: What We Can Learn about Faith from People with Neurological Diseases”  
Monday: 8:45 AM Jeffrey Schloss, “Evolution, Moral Cognition, and the Question of Human Exceptionalism”

## Special Events

Friday: 8:30 AM Workshop 1: Origins Today: Genesis through Ancient Eyes  
8:30 AM Workshop 2: Progress and Challenges in Understanding Life’s Origins  
8:30 PM Fellowship Mixer  
Saturday: 12:00 PM CWIS Hike and Picnic Box Lunch  
6:00 PM Banquet  
8:30 PM CSCA Annual Meeting  
9:00 PM Student and Early Career Session: Meet the Plenary Speakers  
Sunday: 9:30 AM Worship Service  
6:30 PM ASA Business Meeting  
7:30 PM Communications Meeting  
8:30 PM Christian Women in Science—open meeting  
9:00 PM Christian Women in Science Board Meeting

## Many thanks to ...

Program Chair **Robert Mann** and Local Arrangements Chair **Robert Geddes** for their countless hours of preparation. We are especially thankful for the **donors** who contributed to the Students and Early Career Scientists’ Scholarship Fund.

## The ASA/CSCA/CiS Spirit

The ASA, CSCA, and CiS encourage thoughtful and provocative scientific presentations and discussions. Presenters and discussants are expected to maintain a humble and loving attitude toward individuals who have a different opinion.

# 2014 ASA/CSCA/CIS ANNUAL MEETING PRE-MEETING ACTIVITIES

## WEDNESDAY, 23 JULY 2014

4:00 PM	Les Prince Residence Hall check in opens at the Commons Building
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## THURSDAY, 24 JULY 2014

3:00 PM	Meeting Registration opens, Commons Building
4:00 PM	Les Prince Residence Hall check in opens at the Commons Building
5:00 PM	Dinner, Commons Building
9:30 PM	Meeting Registration closes, Commons Building

## FRIDAY, 25 JULY 2014

7:00 AM	Breakfast, Commons Building
8:00 AM	Meeting Registration opens, MDCL Foyer
8:30 AM	Workshop 1, MDCL 1009: <b>John Walton</b> , leader; Origins Today: Genesis through Ancient Eyes
8:30 AM	Workshop 2, MDCL 1010: <b>Stephen Freeland</b> , leader; Progress and Challenges in Understanding Life's Origins
8:30 AM	Field Trip: Niagara Falls, depart from the front of Les Prince Residence Hall
8:30 AM	Field Trip: Geology of the Niagara Escarpment and Gorge, depart from the front of Les Prince Residence Hall
8:30 AM	Field Trip: Royal Botanical Gardens, depart from the front of Les Prince Residence Hall
12:00 PM	Lunch, Commons Building
1:30 PM	Field Trip: McMaster Campus Tour, depart from the front of Les Prince Residence Hall

# 2014 ASA/CSCA/CIS ANNUAL MEETING

## FRIDAY, 25 JULY 2014

4:00 PM	Les Prince Residence Hall check in opens at the Commons Building
5:00 PM	Dinner, Commons Building
7:00 PM	Welcome, Introductions, MDCL 1307 <ul style="list-style-type: none"> <li>• <b>Randy Isaac</b>, ASA Executive Director</li> <li>• <b>Robert Geddes</b>, Local Arrangements Chair</li> <li>• <b>Robert Mann</b>, Program Chair</li> </ul>
7:15 PM	Plenary I, MDCL 1307 (9) Moderator: <b>Robert Mann</b> <b>Megan Best</b> , "Brave New World"
8:30 PM	Mixer, MDCL Southeast Foyer
9:00 PM	Meeting Registration closes, MDCL Foyer

\* Abstract(s) for session are found on the page number(s) in parentheses after the room location.

## SATURDAY, 26 JULY 2014

7:00 AM	Breakfast, Commons Building			
8:15 AM	Meeting Registration opens, MDCL Foyer			
8:15 AM	Devotions, MDCL 1307 Music Leader: <b>Wendy Porter</b> , Director of Music and Worship, McMaster Divinity College Devotional: <b>Glenn Marsch</b>			
8:45 AM	Plenary II, MDCL 1307 (9) Moderator: <b>Arnold Sikkema</b> <b>Don N Page</b> , "The Optimal Argument for the Existence of God"			
9:00 AM	Exhibit Room, MDCL 1115; Book Room, MDCL 1116, open			
9:45 AM	Beverage Break, MDCL Southeast Foyer			
10:00 AM	Les Prince Residence Hall check out, Commons Building			
10:15–11:45 AM	<b>I.A, Physical Science-1: Cosmology and Theology</b> –MDCL 1307 (20–21) Moderator: <b>Colin Humphreys</b>	<b>I.B, Life Science-1: Biology</b> –MDCL 1309 (16–17) Moderator: <b>Patricia Fitzgerald-Bocarsly</b>	<b>I.C, Environment-1: Protecting God’s Creation</b> –MDCL 1110 (13–14) Moderator: <b>Donald Morton</b>	<b>I.D, Science/Theology-1: Worldviews of Creation</b> –MDCL 1009 (25) Moderator: <b>Deborah Haarsma</b>
10:15 AM	<b>Peter J Bussey</b> "The Beginning of the Universe"	<b>Patricia Fitzgerald-Bocarsly</b> "TOLL and TOLL-like Receptors from Drosophila to Humans: The Bell Tolls for All"	<b>Darren Brouwer</b> "Transformative Experiences of Creation Care"	<b>Dennis Danielson</b> "Galileo, Cosmological Mutability, and Its Theological Implications"
10:30 AM			<b>Sharon Petzinger</b> "Guiding the Stewardship of God’s Creation: An Example from the Most Densely Populated State in the USA"	
10:45 AM	<b>Elliot Nelson</b> "Is the Observable Universe a Biased Sample?"	<b>Linda Y Lu</b> "Antioxidant Induces DNA Damage, Cell Death and Mutagenicity in Human Lung and Skin Normal Cells"	<b>Robert D Sluka</b> "The Hidden Things of God in the Ocean"	<b>Ide Trotter</b> "Texas Biology Textbook Smack Down"
11:00 AM	<b>Gladys Kober</b> "High School Curriculum— 'The Crossroads of Science and Faith: Astronomy with a Christian Worldview'"	<b>Hannah Ryan</b> "Mutational Studies of Yeast Hexokinase Isozymes"	<b>David L Dornbos Jr</b> "Food System Reform Consistent with Christian Stewardship Could Drive Improved Ecological Health and Sustainable Healthcare"	<b>Alan Dickin</b> "Time to Abandon Aristotelian Approaches to Genesis?"
11:15 AM	Panel Discussion "Our Universe: From Nothing? Unique? Fine-tuned? Designed? Created?" Panelists: <b>Peter Bussey</b> <b>Robert Mann</b> <b>Don Page</b> <b>David Wilkinson</b>	<b>Jan Frederic Dudd</b> "Teaching Evolution from a Christian Perspective at Grove City College"	<b>David R Clements</b> "Publishing in Creation with Illustrations from Garry Oak Ecosystem Restoration in the Pacific Northwest"	<b>Doug Hayhoe</b> "Creation as Gift Event: A New Perspective for Evangelicals?"
11:30 AM		<b>John Korstad</b> "Developing an Interdisciplinary Course on Global Development and Sustainability"		
12:00 PM	Lunch, Commons Building			
12:00 PM	Christian Women in Science (ASA Affiliate) Hike and Picnic Box Lunch—All women invited, but box lunch must be pre-ordered with meeting registration.			

1:30–3:00 PM	<b>II.A, Physical Science-2: Physics, Scripture, and Theology</b> –MDCL 1307 (21–22) Moderator: <b>Peter Bussey</b>	<b>II.B, Sci/Tech-Service-1: Technologies to Improve Quality of Life</b> –MDCL 1309 (23–24) Moderator: <b>Mike Clifford</b>	<b>II.C, Environment-2: Dealing with Climate Change</b> –MDCL 1110 (14–16) Moderator: <b>Donald Morton</b>	<b>II.D, Science/Theology-2: Attitudes toward Evolution</b> –MDCL 1009 (25–26) Moderator: <b>David Chettle</b>
1:30 PM	<b>Colin Humphreys</b> “Evidence for God from Some Crucifixion Events”	<b>Emily Ruppel</b> “Is Success a Technicality? Suggestions from Two Case Studies in Experimental Hand Transplantation”	<b>Charles E Chaffey</b> “Brother Marie-Victorin: Christian Advocate for the Environment in French Canada”	<b>Deborah Haarsma</b> “What Americans Think and Feel about Evolution”
1:45 PM			<b>Tim Middleton</b> “Earthquakes and Evil: Developing a Theology of Natural Disasters”	
2:00 PM	<b>C M B Biggs</b> “The God of Samson— or Delilah?”	<b>William Jordan</b> “Banana Plants: Using Waste to Clean Water”	<b>Johnny Wei-Bing Lin</b> “Climate Change and Christian Stewardship: Toward an Alternative Framework for Understanding Questions of Creation Care”	<b>Paul Arveson</b> “The AAAS DoSER-Rice University Evangelical Perceptions Project”
2:15 PM	<b>David Robbins</b> “Noah and the Voice of Science”	<b>Walter L Bradley</b> “Lessons Learned in Helping Poor Using Agricultural Waste: The Case of the Coconut”	<b>Katharine Hayhoe</b> “Christians, Climate Change, and Our Culture”	
2:30 PM	<b>Hugh Ross</b> “Constructive Integration of Science and Scripture”	<b>James Rynd</b> “Teaching College-Level Science in West Africa”	<b>Terry M Gray</b> “The Problem of CO <sub>2</sub> and Solutions from the World of Chemistry”	<b>David Wilkinson</b> “Attitudes to Science and Faith among UK Senior Christian Leaders”
2:45 PM			<b>Glenn A Marsch</b> “Should We Split Atoms or Carbon-Carbon Bonds: Some Considerations from Biophysics, Toxicology and Environmental Stewardship”	
3:00 PM	Refreshment Break, MDCL Southeast Foyer			
3:30–5:00PM	<b>III.A, CWIS: Christian Women in Science</b> –MDCL 1307 (11) Moderator: <b>Gayle Ermer</b>	<b>III.B, Mind Science-1: Self-Understanding</b> –MDCL 1309 (19) Moderator: <b>Heather Looy</b>	<b>III.C, Environment-3: Dealing with Climate Change</b> –MDCL 1110 (16) Moderator: <b>Charles Chaffey</b>	<b>III.D, Emergence-1: Life and Information</b> –MDCL 1009 (11–12) Moderator: <b>Arnold Sikkema</b>
3:30 PM	<b>Lynn Billman</b> “The Birth and Progress of ‘Christian Women in Science,’ An Affiliate of the American Scientific Affiliation”	<b>Thom Black</b> “Paul the Apostle, Neuroplasticity, and the Renewal of the Mind”	<b>Kenell J Touryan</b> “Natural Gas and Renewable Energy: Competition or Synergism?”	<b>Phyllida Drummond</b> “Emergence and the Property of Life”
4:00 PM	<b>Gayle E Ermer</b> “A Christian Response to Under-Representation of Women in Engineering Degree Programs”	<b>David L Wilcox</b> “Evolving toward the Fall: Neuroplasticity and Original Sin”	<b>Donald C Morton</b> “Climate Science and the Dilemma for Christians”	<b>Robert J Marks II</b> “Functional Information and the Intelligent Design-Theistic Evolution Dialogue”
4:15 PM			<b>General Discussion</b>	
4:30 PM	<b>E Janet Warren</b> “Feminine Sin and Female Scientists”			<b>Randy Isaac</b> “Generating New Functional Information”
5:00 PM	Exhibit Room, MDCL 1115; Book Room, MDCL 1116, close			

5:00 PM	Meeting Registration closes, MDCL Foyer
5:45 PM	Seating for Banquet, CIBC Hall (MUSC)
6:00 PM	Banquet, CIBC Hall (MUSC)
7:15 PM	Plenary III, CIBC Hall (MUSC) (9) Moderator: <b>Colin Humphreys</b> <b>Barth Netterfield</b> , "Astrophysics: The Heavens Declare the Glory of God"
8:30 PM	CSCA Annual Meeting, CIBC Hall (MUSC)
9:00 PM	Student and Early Career Session: Meet the Plenary Speakers, CIBC Hall (MUSC)

**SUNDAY, 27 JULY 2014**

8:00 AM	Breakfast, Commons Building			
9:30 AM	Worship, MDCL 1307 Music Leader: <b>Wendy Porter</b> , Director of Music and Worship, McMaster Divinity College Worship Leaders: Members of the CSCA Executive Council Minister: <b>Rev Dr John Bowen</b> , Director of the Institute of Evangelism, Wycliffe College			
10:00 AM	Les Prince Residence Hall check out, Commons Building			
10:30 AM	Meeting Registration opens, MDCL Foyer			
10:30 AM	Exhibit Room, MDCL 1115; Book Room, MDCL 1116, open			
10:30 AM	Beverage Break, MDCL Southeast Foyer			
11:00 AM	Plenary IV, MDCL 1307 (10) Moderator: <b>Heather Looy</b> <b>Alasdair Coles</b> , "Broken Brains and Christ: What We Can Learn about Faith from People with Neurological Diseases"			
12:00 PM	Lunch, Commons Building			
1:30–3:00 PM	<b>IV.A, Physical Science-3: Frontiers of Physics and Astronomy</b> –MDCL 1307 (22) Moderator: <b>Colin Humphreys</b>	<b>IV.B, Life Science-2: Evolution/Death</b> –MDCL 1309 (17–18) Moderator: <b>Patricia Fitzgerald-Bocarsly</b>	<b>IV.C, Mind Science-2: Evolutionary Psychology</b> –MDCL 1110 (19–20) Moderator: <b>Heather Looy</b>	<b>IV.D, Emergence-2: Emergence and Theology</b> –MDCL 1009 (12–13) Moderator: <b>Arnold Sikkema</b>
1:30 PM	<b>David Wilkinson</b> "Exoplanets, Creation and Incarnation: Christian Faith Engaging with SETI"	<b>Denis O Lamoureux</b> "Original Sin Revisited: An Inevitable Theological Paradigm Shift?"	<b>Loren Haarsma</b> "From Psyche to Sin and Redemption"	<b>Jamin Hübner</b> "Case Studies in Emergence: Bridging the Gap between Science and Theology"
2:00 PM	<b>Robert Mann</b> "Physics at the Theological Frontier"	<b>Bethany Sollereider</b> "Nonhuman Animal Suffering and the Christ Who Holds All Things Together"	<b>Alfred Latham</b> "The Ethics of Justice and of the Atonement"	<b>Paul H Carr</b> "Did Consciousness Emerge from Cosmos or Visa-Versa?"
2:30 PM	<b>Qing-Bin Lu</b> "Global Climate Change and Ozone Depletion: Understanding from a Christian Physicist"	<b>Paul Fayter</b> "Combating the Cosmos without Christ: Thomas Henry Huxley's Conflicted Case against Evolutionary Ethics"	<b>Chris Barrigar</b> "The Problem of Altruism: Evolutionary Sciences and Neuroscience Versus Social Psychology and Theology"	<b>David C Winyard Sr</b> "A Technological God? The Emergence of Religious Transhumanism"
3:00 PM	Refreshment Break, MDCL Southeast Foyer			

SUNDAY, 27 JULY 2014

3:30–5:00 PM	<b>V.A, Science/Theology-3: Theology and Science</b> –MDCL 1307 (26–27) Moderator: <b>David Wilkinson</b>	<b>V.B, Life Science-3: Bioethics</b> –MDCL 1309 (18–19) Moderator: <b>Patricia Fitzgerald-Bocarsly</b>	<b>V.C, Mind Science-3: How Modern Science Affects Us Psychologically</b> –MDCL 1110 (20) Moderator: <b>Heather Looy</b>	<b>V.D, Emergence-3: Science, Theology, and Philosophy</b> –MDCL 1009 (13) Moderator: <b>Arnold Sikkema</b>
3:30 PM	<b>Keith Miller</b> “Doubt in Science and Faith”	<b>Uko Zylstra</b> “Genetic Manipulation and Patenting of Genes and GMOs”	<b>Heather Looy</b> “Strangers in Our Own House: Psychological Consequences of Our Alienation from Creation”	<b>Tom Woolley</b> “The Distribution of Life: Is Evolution ‘Predictable?’”
4:00 PM	<b>Hugh Reynolds</b> “Signs and Wonders in the Bible—What Is Their Purpose?”	<b>D Gareth Jones</b> “Why Do Christians Find the Artificial Reproductive Technologies So Challenging?”	<b>Scott Bonham</b> “Pursuing Truth through a Social Constructivist Framework”	<b>Harry Cook, Arnold E Sikkema, Jitse M van der Meer</b> Initial presentations by panelists that will precede a Panel Discussion, which will be followed by a general discussion on emergence
4:15 PM	<b>Maria A Hernandez</b> “Holding the Healthcare Giant in Christ”			
4:30 PM				
4:45 PM		<b>James Johansen</b> “Information in Genomes: Scientific, Theological, and Ontological Perspectives”		
5:00 PM	Exhibit Room, MDCL 1115; Book Room, MDCL 1116, close			
5:00 PM	Meeting Registration closes, MDCL Foyer			
5:15 PM	Dinner, Commons Building			
6:30 PM	ASA Business Meeting, MDCL 1307			
7:30 PM	Communications Meeting, MDCL 1307			
8:30 PM	Christian Women in Science, MDCL TBA—Open meeting, 8:30–9:00 PM; come offer your comments. Closed CWIS Board meeting, 9:00–10:00 PM			

**MONDAY, 28 JULY 2014**

7:00 AM	Breakfast, Commons Building			
8:15 AM	Meeting Registration opens, MDCL Foyer			
8:15 AM	Devotions, MDCL 1307 Music Leader: <b>Wendy Porter</b> , Director of Music and Worship, McMaster Divinity College Devotional: <b>Janet Warren</b>			
8:45 AM	Plenary V, MDCL 1307 (10) Moderator: <b>Patricia Fitzgerald-Bocarsly</b> <b>Jeffrey P Schloss</b> , "Evolution, Moral Cognition, and the Question of Human Exceptionalism"			
9:00 AM	Exhibit Room, MDCL 1115; Book Room, MDCL 1116, open			
9:45 AM	Beverage Break, MDCL Southeast Foyer			
10:00 AM	Les Prince Residence Hall check-out, Commons Building			
10:15–11:45 AM VI.D ends at Noon	<b>VI.A, Physical Science-4: The Laws of Physics</b> –MDCL 1307 (22–23) Moderator: <b>Colin Humphreys</b>	<b>VI.B, Sci/Tech Service-2: Energy</b> –MDCL 1309 (24) Moderator: <b>Mike Clifford</b>	<b>VI.C, Science/Theology-4: Philosophy and Science</b> –MDCL 1110 (27) Moderator: <b>Dennis Danielson</b>	<b>VI.D, Academy Regained: Natural Sciences</b> –MDCL 1009 (28) Moderator: <b>Russell Kosits</b>
10:15 AM	<b>Matthew Huddleston</b> "A Superposition of Quantum Controversy: The Ongoing Debate over What Aspects of Quantum Mechanics Are Controversial"	<b>David Larrabee</b> "Personal Lifestyle Implications of a Globally Just and Sustainable Future"	<b>Christopher Waks</b> "A New Eclipse of the Biblical Narrative: Biblical Interpretation in Scientific Thinking"	<b>David T Koyzis, Russell D Kosits</b> Introductory Comments by Programme Chairs
10:30 AM				<b>Kevin Vander Meulen</b> "A Neo-Kuyperian Approach to Mathematics"
10:45 AM	<b>G Wayne Brodland</b> "The Trouble with Models"	<b>Bruce Beaver</b> "Would God Frack?"	<b>Daniel W Rüdissill</b> "'Loving Wisdom': Philosophy as <i>Philosophia</i> "	
11:00 AM				<b>Derek Schuurman, Steve Vander Leest</b> "Exploring a Biblical Perspective of Engineering"
11:15 AM	<b>Greg Voth</b> "What Violations of the Known Laws of Physics Do You Expect?"	<b>Mike Clifford</b> "Cookery Lessons: An Engineer's Observations on the Role of Participation in the Uptake of Improved Cook Stoves in Sub-Saharan Africa"	<b>Fr Hugh MacKenzie</b> "Socrates' Helpful Diagnosis of His Creationist 'Preference' and Modern Science's Theistic Cure"	
11:30 AM				<b>Arnold E Sikkema</b> "Reformational Perspectives in Physical Science"
12:00 PM	Exhibit Room, MDCL 1115; Book Room, MDCL 1116, close			
12:00 PM	Meeting Registration closes, MDCL Foyer			
12:00 PM	Lunch, Commons Building			

## 2014 ASA/CSCA/CiS ANNUAL MEETING POST-MEETING ACADEMY REGAINED CONFERENCE AT REDEEMER COLLEGE

Separate registration required. See <http://goo.gl/a5crgc> for details.

### *Academy Regained: Social Sciences*

2:00 PM	<b>Vahagn Asatryan</b> , "Exploring a Biblical Perspective of Marketing"
2:30 PM	<b>Russell D Kosits, Eric L Johnson</b> , "A Preliminary Rationale for Reformed and Reformational Perspective in Psychological Science"
3:00 PM	<b>James R Vanderwoerd</b> , "Toward a Biblical Grounding for Professional Social Work Practice"
3:30 PM	<b>David T Koyzis</b> , "Political Science Regained"
4:00 PM	Break

### *Academy Regained: Humanities*

4:30 PM	<b>Janet Danielson</b> , "Music as Science and Art"
5:00 PM	<b>Kevin Flatt</b> , "What Does Kuyper Have to Do with Ranke and Foucault? A Reformational Perspective on the Discipline of History"
5:30 PM	<b>Alissa Wilkinson</b> , "Word and Flesh: Toward a Christian View of English Literature"
6:00 PM	<b>James J Rusthoven</b> , "Toward a Reformed Understanding of Biomedical Ethics"
6:30 PM	Dinner (with reflections from <b>Al Wolters</b> )
7:30 PM	Highlights from "Six Pieces of a Reverberant Cosmos" by Janet Danielson narrated by <b>Dennis Danielson</b>