

Journal of RELIGION & SCIENCE



SEPTEMBER 2021 VOLUME 56 NUMBER 3

Zygon[®] | Journal of RELIGION AND SCIENCE

Founding Editor: RALPH WENDELL BURHOE (1911-1997)

Editor: ARTHUR C. PETERSEN, University College London, UK Book Review Editor: MLADEN TURK, Elmhurst University, USA

Associate Managing Editor: JAMES R. COOK (Wiley, Oxford) Editorial Assistant: LALBIAKTIUANGI CHHAKCHHUAK (Wiley, Chennai) Assistant Treasurer and Chicago Editorial Office Assistant: DAVID M. GLOVER (Zygon Journal Corporation)

Joint Publication Board, appointed by IRAS (www.iras.org), the Institute on Religion in an Age of Science (1954), CASIRAS (www.casiras.org), the Center for Advanced Study in Religion and Science (1972), which also supports the Zygon Center (www.zygoncenter.org), and by ISSR (www.issr.org.uk), the International Society for Science and Religion (2002):

CELIA DEANE-DRUMMOND, Director, Laudato Si' Research Institute, Oxford, UK WILLEM B. DREES, Prof. Emeritus of Philosophy of the Humanities, Tilburg University, The Netherlands SOLOMON H. KATZ, Prof. Emeritus of Anthropology, University, of Pennsylvania, USA EDWIN C. LAURENSON, Lawyer, McDermott Will & Emery LIP, San Francisco, USA (President) BENJAMIN M. STEWART, Gordon A. Braatz Associate Professor of Worship, Lutheran School of Theology at Chicago, USA MICHAEL J. REIS, Prof. Emeritus of Philosophy, Florida State University, USA MICHAEL RUSE, Prof. Emeritus of Philosophy, Florida State University of Cambridge, UK (Secretary) GAYLE E. WOLDSCHAR, Prof. of Radiology and Cell and Molecular Biology, Northwestern University, USA (Treasurer)

Editorial Advisory Board:

FRANCISCO J. AYALA, formerly Donald Bren Professor of Biological Sciences, Univ. of California Irvine, USA ZAINAL ABIDIN BAGIR, Center for Religious and Cross-Cultural Studies, Gadjah Mada Univ., Indonesia ANINDITA N. BALSLEV, Philosophy & Forum, 'Cross Cultural Conversation', India and Denmark JOSEPH BULBULIA, Evolutionary/Longitudinal Study of Religion, Victoria Univ., New Zealand RONALD COLE-TURNER, H. Parker Sharp Chair of Theology and Ethics, Pittsburgh Theological Seminary, USA MIHALY CSIKSZENTMIHALYI, Distinguished Prof. of Psychology and Management, Claremont Graduate Univ., USA FRANS DE WAAL, C. H. Candler Prof. of Primate Behavior, Director Living Links Center, Emory Univ., USA TERRENCE DEACON, Prof. of Biological Anthropology and Linguistics, Univ. of California Berkeley, USA GEORGE ELLIS, Prof. Emeritus of Applied Mathematics, Univ. of Cape Town, South Africa DIRK EVERS, Prof. of Systematic Theology, Martin-Luther-Univ. Halle-Wittenberg, Germany OWEN J. FLANAGAN, James B. Duke Prof. of Philosophy, Psychology, and Neuroscience, Duke Univ., USA MOHAMMED GHALY, Prof. of Islamic Law and Biomedical Ethics, Center for Islamic Legislation and Ethics, Doha, Qatar URSULA GOODENOUGH, Prof. Emerita of Biology, Washington Univ., St. Louis, USA NIELS HENRIK GREGERSEN, Prof. of Systematic Theology, Univ. of Copenhagen, Denmark NIDHAL GUESSOUM, Prof. of Physics and Astronomy, American Univ. of Sharjah, United Arab Emirates PETER HARRISON, Director, Centre for the History of European Discourses, Univ. of Queensland, Australia PHILIP HEFNER, Prof. Emeritus of Systematic Theology, Lutheran School of Theology at Chicago, USA MICHAEL S. HOGUE, Prof. of Theology, Ethics, and Philosophy, Meadville Lombard Theological School, Chicago, USA ANTJE JACKELÉN, Archbishop of the Lutheran Church of Sweden, Uppsala, Sweden SEUNG CHUL KIM, Director, Nanzan Inst. For Religion and Culture, Nanzan Univ., Japan MELVIN J. KONNER, Samuel Candler Dobbs Prof. of Anthropology, Emory Univ., USA LI JIANHUI, Prof. of Philosophy and Ethics, School of Philosophy and Sociology, Beijing Normal University, China LIU XIAOTING, Prof. of Sciences and Humanities, Beijing Normal University, China LU FENG, Prof. of Ethics and Practical Philosophy, Tsinghua Univ., China ANDREW B. NEWBERG, Thomas Jefferson Univ. Hospital, Philadelphia, USA ANN MILLIKEN PEDERSON, Prof. of Religion, Augustana College, Sioux Falls, USA GREGORY R. PETERSON, Prof. of Philosophy and Religion, South Dakota State Univ., USA VARADARAJA V. RAMAN, Prof. Emeritus of Physics and Humanities, Rochester Institute of Technology, USA HOLMES ROLSTON, III, Prof. Emeritus of Philosophy, Colorado State Univ., USA ROBERT J. RUSSELL, Ian G. Barbour Prof. of Theology and Science, Graduate Theological Union, Berkeley, USA ROBERT A. SEGAL, Sixth Century Chair in Religious Studies, Univ. of Aberdeen, UK CHRISTOPHER SOUTHGATE, Prof. of Christian Theodicy, Department of Theology and Religion, Univ. of Exeter, UK ANN TAVES, Distinguished Prof. of Religious Studies, Univ. of California Santa Barbara, USA HAVA TIROSH-SAMUELSON, Irving and Miriam Lowe Prof. of Modern Judaism, Arizona State Univ., USA MARY EVELYN TUCKER, Comparative Religion and Ecology, Yale Univ., USA CLAUDIA VANNEY, Prof. of Physics and Philosophy, Universidad Austral, Argentina WESLEY J. WILDMAN, Professor of Philosophy, Theology, and Ethics, Boston Univ., USA Amos Yong, Chief Academic Officer, Prof. of Theology and Mission, Fuller Theological Seminary, USA

The word zygon means the yoking of two entities or processes that Statement of Perspective. must work together. It is related to zygote-meaning the union of genetic heritage from sperm and egg, a union that is vital in higher species for the continuation of advancement of life. The journal Zygon provides a forum for exploring ways to unite what in modern times has been disconnected-values from knowledge, goodness from truth, religion from science. Traditional religions, which have transmitted wisdom about what is of essential value and ultimate meaning as a guide for human living, were expressed in terms of the best understandings of their times about human nature, society, and the world. Religious expression in our time, however, has not drawn similarly on modern science, which has superseded the ancient forms of understanding. As a result religions have lost credibility in the modern mind. Nevertheless some recent scientific studies of human evolution and development have indicated how long-standing religions have evolved well-winnowed wisdom, still essential for the best life. Zygon's hypothesis is that when long-evolved religious wisdom is yoked with significant recent scientific discoveries about the world and human nature, there results credible expression of basic meaning, values, and moral convictions that provides valid and effective guidance for enhancing human life. Zygon also publishes manuscripts that are critical of this perspective, as long as such papers contribute to a constructive reflection on scientific knowledge, human values, and existential meaning.

Editorial Offices. Main Editorial Office: *Zygon* Journal, John Wiley & Sons Ltd, 9600 Garsington Road, Oxford OX4 2DQ, UK. E-mail zygon@wiley.com. Chicago Editorial Office (Book Reviews): *Zygon* Journal, 1100 E. 55th Street, Chicago, IL 60615-5112, USA. Telephone +1 773-256-0767. E-mail zygon@lstc.edu.

Manuscripts. Please submit online via http://mc.manuscriptcentral.com/zygon. For author guidelines, see www.wileyonlinelibrary.com/journal/zygon.

Electronic Access and Back Issues. The journal, including all previous issues, is available at *www.wileyonlinelibrary.com.* Back issues are available from Wiley Blackwell Publishing, 350 Main Street, Malden, MA 02148, U.S.A. For back volumes in microfilm: University Microfilms, 300 North Zeeb Road, Ann Arbor, MI 48106; microfiche from Kraus Microform, Route 100, Millwood, NY 10564.

Indexes and Abstracts. Zygon is indexed in the ATLA Religion Database (www.atla.com). The contents are indexed or abstracted in Arts & Humanities Citation Index, Book Review Index, Children's Book Review Index, Current Contents, Dietrich's Index Philosophicus, Family Index, Guide to Social Science and Religion, Humanities Index, I B Z—Internationale Bibliographie der Geistes und Sozialwissenschaftlichen Zeitschriftenliteratur, Internationale Bibliographie der Geistes— Geistes—und Sozialwissenschaftlicher Literatur, Lancaster Index to Defence & International Security Literature, New Testament Abstracts, Periodicals Contents Index, Philosopher's Index, R I L M Abstracts of Music Literature, Religion Index One: Periodicals, Religious & Theological Abstracts, Repertoire Bibliographique de la Philosophie, Russian Academy of Sciences Bibliographies, Social Sciences Citation Index, Social Services Abstracts, and Sociological Abstracts.

Production Editor: Remya V R (ZYGO@wiley.com)

Advertising: For information and rates, contact Advertising Sales Representative, Wiley Blackwell, 350 Main Street, Malden, MA 02148; corporatesalesusa@wiley.com.

Copyright: Copyright and copying © 2021 Joint Publication Board of Zygon. All rights reserved. No part of this publication may be reproduced, stored, or transmitted in any form or by any means without prior permission in writing from the copyright holder. Authorization to photocopy items for internal and personal use is granted by the copyright holder for libraries and other users registered with their local Reproduction Rights Organization (RRO), e.g., Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, U.S.A. (*www.copyright.com*), provided the appropriate fee is paid directly to the RRO. This consent does not extend to other kinds of copying such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Special requests should be addressed to: permissions@wiley.com.

Disclaimer. The Publisher and Editor cannot be held responsible for errors or any consequences from the use of information in this journal. Views and opinions expressed do not necessarily reflect those of the Publisher and Editor; neither does publication of advertisement constitute any endorsement by the Publisher or the Editor of the product advertised.

Printed in the United States of America by The Sheridan Press.

ISSN 0591-2385 (Print) ISSN 1467-9744 (Online)

For submission instructions, subscription and all other information visit:www.wileyonlinelibrary. com/journal/zygon

IN THIS ISSUE

M

EDITORIAL

ARTHUR C. PETERSEN	Open Access, the Humanities, and Contemplation Through Science
	ARTICLES
ALISTER E. McGRATH	A <i>Consilience of Equal Regard</i> : Stephen Jay Gould on the Relation of Science and Religion
WILLIAM C. LANE	Living God Pandeism: Evidential Support
R. T. MULLINS, EMANUELA SANI	Open Theism and Risk Management: A Philosophical and Biological Perspective
ARCIO ANTONIO CAMPOS	Awareness of Papal Statements and Evolution Acceptance Among Brazilian Catholic Seminarians
AKU OLAVI VISALA	Consciousness and Moral Responsibility: Skeptical Challenges and Theological Reflections
DANIEL CAPPER	How Venus Became Cool: Social and Moral Dimensions of Biosignature Science
DREES'S WHAT	ARE THE HUMANITIES FOR:
PETER HARRISON	Defining and Defending the Humanities
MICHAEL RUSE	Willem Drees on the Humanities
DOUGLAS F. OTTATI	Theology among the Human Humanities
LISA L. STENMARK	<i>Who</i> are the Humanities for? Decolonizing the Humanities
DONALD L. DRAKEMAN	Some Second Thoughts About the Humanities
WILLEM B. DREES	The Coherence and Character of the Humanities: A Reply to Critics
BOYI	E LECTURE 2021
TOM McLEISH	The Re-Discovery of Contemplation Through Science
ROWAN WILLIAMS	The Re-Discovery of Contemplation Through Science: A Response to Tom McLeish
FRASER N. WATTS	Discussion of the Boyle Lecture 2021
TOM McLEISH	Response to Boyle Lecture 2021 Panel and Participant Discussion



Zygon®Journal of
RELIGION AND SCIENCE
VOL. 56, NO. 3, September 2021

CONTENTS

EDITORIAL

Open Access, the Humanities, and Contemplation Through	
Science Arthur C. Petersen	541

ARTICLES

A <i>Consilience of Equal Regard</i> : Stephen Jay Gould on the Relation of Science and ReligionALISTER E. MCGRATH	547
Living God Pandeism: Evidential Support WILLIAM C. LANE	566
Open Theism and Risk Management: A Philosophical and Biological Perspective R. T. Mullins and Emanuela Sani	591
Awareness of Papal Statements and Evolution Acceptance Among Brazilian Catholic Seminarians MARCIO ANTONIO CAMPOS	614
Consciousness and Moral Responsibility: Skeptical Challenges and Theological ReflectionsAKU OLAVI VISALA	641
How Venus Became Cool: Social and Moral Dimensions of Biosignature ScienceDANIEL CAPPER	666

DREES'S WHAT ARE THE HUMANITIES FOR?

Defining and Defending the Humanities PETER HARRISON	678
Willem Drees on the Humanities MICHAEL RUSE	691
Theology among the Human Humanities DOUGLAS F. OTTATI	704
<i>Who</i> are the Humanities for? Decolonizing the Humanities LISA L. STENMARK	718
Some Second Thoughts About the Humanities DONALD L. DRAKEMAN	732
The Coherence and Character of the Humanities: A Reply to Critics	746

BOYLE LECTURE 2021

The Re-Discovery of Contemplation Through Science TOM MCLEISH	758
The Re-Discovery of Contemplation Through Science:	
A Response to Tom McLeish	777
Discussion of The Boyle Lecture 2021 FRASER N. WATTS	782

Response to Boyle Lecture 2021 Panel and Participant	
Discussion	786

REVIEWS

<i>Deprovincializing Science and Religion.</i> By Gregory Dawes SAMUEL VINCENZO JONATHAN	804
<i>Divine Action and the Human Mind.</i> By Sarah Lane Ritchie	805
How God Becomes Real: Kindling the Presence of Invisible Others. By T. M. Luhrmann Lluis Oviedo	807
PATRONS	811
ANNOUNCEMENTS	812
 Visit us at www.zygonjournal. 	org •

[Zygon, vol. 56, no. 3 (September 2021)] © 2021 by the Joint Publication Board of Zygon. ISSN 0591-2385 (Print), ISSN 1467-9744 (Online) Zygon and its logo are registered trademarks.

Information for Subscribers. Zygon: Journal of Religion and Science is published quarterly by the Joint Publication Board of Zygon, 1100 East 55th Street, Chicago, IL 60615-5112, USA, phone +1-773-256-0671, e-mail zygon@lstc.edu, through Wiley Subscription Services, Inc., a Wiley company, 111 River St., Hoboken, NJ 07030-5774, USA.

Subscription Prices. Personal: print + online 97/1000, AAR members: print + online 1000, print + online + online

Journal Customer Services: For ordering information, claims, and any inquiries concerning your journal subscription please go to www.wileycustomerhelp.com/ask or contact your nearest office.

Americas: Email: cs-journals@wiley.com; Tel: +1 781 388 8598 or +1 800 835 6770 (toll free in the USA & Canada).

Europe, Middle East, and Africa: Email: cs-journals@wiley.com; Tel: +44 (0) 1865 778315.

Asia Pacific: Email: cs-journals@wiley.com; Tel: +65 6511 8000.

Japan: For Japanese speaking support, Email: cs-japan@wiley.com; Tel: +65 6511 8010 or Tel (tollfree): 005 316 50 480.

Visit our Online Customer Help available in 7 languages at https://hub.wiley.com/community/ support/onlinelibrary

Mailing. Periodical postage paid at Hoboken, New Jersey, and additional offices. Postmaster: Send address changes to Zygon, John Wiley & Sons Inc., C/O The Sheridan Press, PO Box 465, Hanover, PA 17331.

Delivery Terms and Legal Title. Where the subscription price includes print issues and delivery is to the recipient's address, delivery terms are Delivered at Place (DAP); the recipient is responsible for paying any import duty or taxes. Title to all issues transfers FOB our shipping point, freight prepaid. We will endeavour to fulfil claims for missing or damaged copies within six months of publication, within our reasonable discretion and subject to availability.

Printed in the USA by The Sheridan Group