Zygon®

Journal of RELIGION & SCIENCE



DECEMBER 2021

VOLUME 56 NUMBER 4

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: Lalbiaktiluangi 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) and ISSR (www.issr.org.uk), the International Society for Science and Religion (2002):

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 SARAH LANE RITCHIE, Program Officer, Philosophy & Theology, John Templeton Foundation, USA EDWIN C. LAURENSON, Lawyer, McDermott Will & Emery LLP, San Francisco, USA (President) BENJAMIN M. STEWART, Gordon A. Braatz Associate Professor of Worship, Lutheran School of Theology at Chicago, USA MICHAEL J. REISS, Prof. of Science Education, University College London, UK MLADEN TURK, Baltzer Distinguished Chair of Theology and Religion, Department of Religious Studies, Elmhurst University, USA

FRASER N. WATTS, formerly Reader in Theology and Science, University of Cambridge, UK (Secretary)
GAYLE E. WOLOSCHAK, 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 CELIA DEANE-DRUMMOND, Director, Laudato Si' Research Institute, Oxford, UK 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 KARL PETERS, Prof. Emeritus of Philosophy and Religion, Rollins College, 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 MICHAEL RUSE, Prof. Emeritus of Philosophy, Florida State University, 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 Rezensionen 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

EDITORIAL

ARTHUR C. PETERSEN Naturalism and Church Leaders on Science and

Religion

ARTICLES

JOHN N. CONSTANTINO

Beyond Wishful Thinking: Reconciling Faith and

W. THOMAS BAUMEL Science in Crises of Hope

ANTOINE PANAÏOTI Illusion or Delusion? A Re-Examination of

Buddhist Philosophy of Personal Identity

I SIL YOON Amartya Sen's Capabilities Approach: Resistance

and Transformative Power in the Age of

Transhumanism

LÉON TURNER Synchronous Rituals and Social Bonding:

Revitalizing Conceptions of Individual Personhood

in the Evolution of Religion

PETER SAULSON The Nature of Time as a Puzzle for Naturalism

NATURALISM—AS RELIGION, WITHIN RELIGIONS, WITHOUT RELIGION

WILLEM B. DREES Naturalism and Religion: Hunting Two Snarks?

URSULA W. GOODENOUGH The Emergence of Selves and Purpose

JEREMY E. SHERMAN

MATTHEW MACKENZIE Spiritual Animals: Sense-Making, Self-Transcendence, and Liberal Naturalism

CURTIS M. CRAIG The Potential Contribution of Awe and Nature

Appreciation to Positive Moral Values

MARK E. HOELTER Mysterium Tremendum in a New Key
CHARLES W. FOWLER The Convergence of Science and Religion

TODD MACALISTER Naturalistic Religious Practices: What Naturalists

have been Discussing and Doing

PAUL H. CARR Theologies Completing Naturalism's Limitations

IAMES SHARP Theistic Evolution in Three Traditions

ALESSANDRO MANTINI Religious Naturalism and Creation: A Cosmological

and Theological Reading on the Origin/Beginning

of the Universe

WILLEM B. DREES When to Be What? Why Science-Inspired

Naturalism Need Not Imply Religious Naturalism

UK CHRISTIAN CHURCH LEADERS' ATTITUDES TOWARD SCIENCE AND RELIGION

LYDIA REID Building Enthusiasm and Overcoming Fear:
DAVID WILKINSON Engaging with Christian Leaders in an Age of

Science

ZARA THOKOZANI KAMWENDO Resistance to Narratives of the Covid-19 Pandemic as an Act of God



CONTENTS

EDITORIAL	
Naturalism and Church Leaders on Science and Religion Arthur C. Petersen	816
ARTICLES	
Beyond Wishful Thinking: Reconciling Faith and Science in Crises of Hope JOHN N. CONSTANTINO AND W. THOMAS BAUMEL	820
Illusion or Delusion? A Re-Examination of Buddhist Philosophy of Personal Identity	846
Amartya Sen's Capabilities Approach: Resistance and Transformative Power in the Age of Transhumanism	874
Synchronous Rituals and Social Bonding: Revitalizing Conceptions of Individual Personhood in the Evolution of Religion LÉON TURNER	898
The Nature of Time as a Puzzle for Naturalism PETER SAULSON	922
COMMENTS AND RESPONSE	
A Flowing Time Interpretation of Special Relativity VIA an Inhomogeneous Tense-as-Relational Ontology: A Comment on Saulson	943
A Growing Block Conception of the Nature of Time: A Comment on Saulson	946
Response to Comments on "The Nature of Time as a Puzzle for Naturalism"	948
NATURALISM—AS RELIGION, WITHIN RELIGIONS, WITHOUT	
RELIGION	
Naturalism and Religion: Hunting Two Snarks? WILLEM B. DREES	950
The Emergence of Selves and Purpose Ursula W. Goodenough and Jeremy E. Sherman	960
Spiritual Animals: Sense-Making, Self-Transcendence, and Liberal Naturalism	971
The Potential Contribution of Awe and Nature Appreciation to Positive Moral Values	984
Mysterium Tremendum in a New Key MARK E. HOELTER	994
The Convergence of Science and Religion CHARLES W. FOWLER	1008

814 Zygon

Naturalistic Religious Practices: What Naturalists have been Discussing and Doing	1027
Theologies Completing Naturalism's Limitations Paul H. Carr	1039
Theistic Evolution in Three Traditions James Sharp	1045
Religious Naturalism and Creation: A Cosmological and Theological Reading on the Origin/Beginning of the Universe	1058
When to Be What? Why Science-Inspired Naturalism Need Not Imply Religious Naturalism WILLEM B. DREES	1070
UK CHRISTIAN CHURCH LEADERS' ATTITUDES TOWARD SCIE AND RELIGION	NCE
Building Enthusiasm and Overcoming Fear: Engaging with Christian Leaders in an Age of Science Lydia Reid and David Wilkinson	1087
Resistance to Narratives of the COVID-19 Pandemic as an Act of God	1110
REVIEWS	
Death, Immortality, and Meaning in Life. By John Martin Fischer	1130
Verteidigung des Heiligen: Anthropologie der digitalen Transformation. By Johannes Hoff	1131
ERRATUM	1134
ACKNOWLEDGMENTS	1135
PATRONS	1136
ANNOUNCEMENTS	1137
	/

• Visit us at www.zygonjournal.org •

[Zygon, vol. 56, no. 4 (December 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/£86/€97; AAR members: print + online \$80/£66/€80; Students: print + online \$61/£55/€61; Institutional: print + online \$515/£430/€541, print only \$412/£344/€433, online only \$412/£344/€433. Prices are exclusive of tax. Asia-Pacific GST, Canadian GST/HST, and European VAT will be applied at the appropriate rates. For more information on current tax rates, please go to www.wileyonlinelibrary.com/tax-vat. The price includes online access to the current and all online back files to January 1, 2015, where available.

For other pricing options, including access information and terms and conditions, please visit https://onlinelibrary.wiley.com/library-info/products/price-lists.

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