

# Journey of the Universe

## Yale University, March 24-26 2011

### Participant Biographies

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**Jean E. Thomson Black** is Executive Editor for Science and Medicine Acquisitions at Yale University Press, where she manages trade, scholarly, professional, reference, and course books in the life, physical, environmental, and cognitive sciences, as well as consumer health, history of science and medicine, and environmental history. Series for which she has responsibility include the Terry Lectures, Yale Agrarian Studies, and Yale University Press Health & Wellness (the imprint for consumer health). Many of her titles have won prizes from the American Association of Publishers Professional and Scholarly Publishing Division, the American Medical Writers' Association, the American Meteorological Society, and other organizations. She has worked at Yale University Press since 1990, and previously was employed for nearly 12 years by Academic Press, a publisher of scientific journals and books that is now part of Elsevier Science and Technology. Ms. Thomason Black was educated at Wellesley College (honors graduate and Sigma Xi), Yale University School of Forestry and Environmental Studies, and Rutgers University. She is a member of Sigma Xi, American Association for the Advancement of Science, Ecological Society of America, Appalachian Mountain Club, and Explorers Club (admitted as a member in 2006).

**Derek E.G. Briggs**, G. Evelyn Hutchinson Professor of Geology and Geophysics at Yale University, has been Director of the Yale Peabody Museum of Natural History since 2008. Briggs joined the Yale faculty in 2003. Except for a one-year term from 2001-2002 as a Visiting Professor at the University of Chicago, his prior appointments were in the UK. From 1985-2002 he was in the Department of Earth Sciences (formerly Geology) at the University of Bristol, serving as chair from 1997-2001. Briggs earned his BA at Trinity College, Dublin, and his PhD at the University of Cambridge. He was elected a Fellow of the Royal Society (the UK national academy of science) in 1999 and an honorary Member of the Royal Irish Academy in 2003. He served as President of the Palaeontological Association from 2002-2004 and President of the Paleontological Society from 2006-2008. His primary research interest is in the preservation and evolutionary significance of exceptionally preserved fossils. He has published more than 280 scientific articles and several books including *Evolution* (with N.H. Barton et al., Cold Spring Harbor Press, 2007).

**Brian E. Brown** is Professor of Religious Studies at Iona College where he teaches classes in Buddhism; Chinese Religious Traditions; Religion and Cosmology; and Religion and the Constitution. He holds doctoral degrees in the History of Religions from Fordham University and in Law from New York University. As such, he is interested in the legal, moral, and spiritual dimensions of humanity's relationship with the natural world. Among his publications are articles which have addressed the ecological implications of the Buddhist and Native American tribal traditions, as well as contemporary jurisprudence on the conflicting values of land as

sacred reality or as mere property. As a Historian of Religion, he remains deeply interested in interreligious dialogue particularly between the Buddhist and Christian traditions. Dr. Brown is a member of the Catholic Theological Society of America; the Society for Buddhist-Christian Studies; the American Teilhard Association; and the New York State Bar Association. Dr. Brown is the author of two major works: *The Buddha Nature: A Study of the Tathagatagarbha and Alayavijnana* (Motilal Banarsidass, Delhi: 1991; reprint 1994). and *Religion, Law and the Land: Native Americans and the Judicial Interpretation of Sacred Land* (Greenwood Press: Westport, CT, 1999).

**Cynthia Stokes Brown** is Professor Emerita, Dominican University of California. She devoted twenty years to directing and/or teaching in the single subject credential program. She is the author of *Refusing Racism: White Allies in the Struggle for Civil Rights* (Teachers College Press) and *Big History: From the Big Bang to the Present* (New Press, 2007). She is currently writing the first college-level textbook on Big History with two other leading scholars in the field: David Christian and Craig Benjamin. She and eight other faculty members are piloting a survey course in Big History required for all freshmen at Dominican University.

**Peter G. Brown** holds appointments at McGill University in the School of Environment, the Department of Geography, and the Department of Natural Resource Sciences. His teaching, research, and service are concerned with ethics, governance, and the protection of the environment. He was the first full time Director of the McGill School of Environment. Before coming to McGill he was Professor of Public Policy at the University of Maryland's graduate School of Public Affairs. While at the University of Maryland he founded the Institute for Philosophy and Public Policy, as well as the School of Public Policy itself. Professor Brown established the School's Environmental Policy Programs to operate not only at the University's College Park campus, but also at Maryland's Department of the Environment, and at the United States Environmental Protection Agency. He has held numerous administrative positions within the University of Maryland System. He has taught at Princeton University's Woodrow Wilson School of Public and International Affairs, at the University of Washington, and at St. John's College in Annapolis. In addition to numerous articles and contributions in edited volumes. His most recent volumes are *Right Relationship: Building a Whole Earth Economy* (with Geoffrey Garver, Tom Lovejoy, and Keith Helmuth, Berrett-Koehler, 2009) and *Water Ethics: Foundational Readings for Students and Professionals* (with Jeremy Schmidt, Island Press, 2010).

**J. Baird Callicott** is University Distinguished Research Professor of Philosophy and formerly Regents Professor of Philosophy at the University of North Texas. He is co-Editor-in-Chief of the *Encyclopedia of Environmental Ethics and Philosophy* and author or editor of a score of books and author of dozens of journal articles, encyclopedia articles, and book chapters in environmental philosophy and ethics. Callicott has served the International Society for Environmental Ethics as President and Yale University as Bioethicist-in-Residence, and he has served the UNT Department of Philosophy and Religion Studies as chair. His research goes forward simultaneously on four main fronts: theoretical environmental ethics; comparative environmental ethics and philosophy; the philosophy of ecology and conservation policy; and biocomplexity in the environment, coupled natural and human systems (sponsored by the

National Science Foundation). Callicott is perhaps best known as the leading contemporary exponent of Aldo Leopold's land ethic and is currently exploring an Aldo Leopold Earth ethic in response to global climate change. He taught the world's first course in environmental ethics in 1971 at the University of Wisconsin-Stevens Point. His teaching at UNT includes graduate and undergraduate courses in ancient Greek philosophy and ethical theory in addition to environmental philosophy. He is the author numerous volumes including: *Earth's Insights: A Multicultural Survey of Ecological Ethics from the Mediterranean Basin to the Australian Outback* (with Tom Hayden, University of California Press, 1997); *Beyond the Land Ethic: More Essays in Environmental Philosophy* (SUNY, 1999); and *The Wilderness Debate Rages On: Continuing the Great New Wilderness Debate* (with Michael Nelson, University of Georgia Press, 2008).

**Eric J. Chaisson** is Director of the H. Dudley Wright Center for Innovative Science Education at Tufts University, where he is also Research Professor of Physics and Astronomy and Research Professor of Education. He is also an Associate of the Harvard College Observatory, and serves with the Faculty of Arts and Sciences at Harvard University. Trained initially in atomic physics, Chaisson obtained his doctorate in astrophysics from Harvard University in 1972. His work won him fellowships from the National Academy of Sciences and the Sloan Foundation, as well as Harvard's BJ Bok Prize for original contributions to astrophysics and Harvard's Smith-Weld Prize for literary merit. He has also held research and teaching positions at MIT and Wellesley College and, before joining Tufts, was a scientist on the senior staff and director of educational programs at the Space Telescope Science Institute at Johns Hopkins University. He has more than 150 publications to his credit, most of them in the professional journals. Chaisson's major research interests are currently twofold: His scientific research addresses an interdisciplinary, thermodynamic study of physical and biological phenomena, thereby seeking the origin, evolution, and unification of galaxies, stars, planets, and life forms in the Universe. His educational research engages experienced teachers and computer animators to create better methods, technological aids, and novel curricula to enthuse teachers and instruct students in all aspects of natural science. He teaches an annual undergraduate course at Harvard University on the subject of cosmic evolution, which combines both of these research and educational goals. Chaisson has written several books, including *Cosmic Dawn* which won several literary awards such as the Phi Beta Kappa Prize, the American Institute of Physics Award, and a National Book Award Nomination for distinguished science writing. His most current books, *Cosmic Evolution: The Rise of Complexity in Nature*, and *Epic of Evolution: Seven Ages of the Cosmos*, were published by Harvard and Columbia University Presses, respectively.

**Christopher Key Chapple** is the Navin and Pratima Doshi Professor of Indic and Comparative Theology at Loyola Marymount University. Dr. Chapple received his undergraduate degree in Comparative Literature and Religious Studies from the State University of New York at Stony Brook and his doctorate in the History of Religions through the Theology Department at Fordham University. He served as Assistant Director of the Institute for Advanced Studies of World Religions and taught Sanskrit, Hinduism, Jainism, and Buddhism for five years at the State University of New York at Stony Brook before joining the faculty at LMU. Dr. Chapple's research interests have focused on the renouncer religious traditions of India: Yoga, Jainism, and Buddhism. He has published several books, including *Karma and Creativity*

(1986), a co-translation of the *Yoga Sutras* of Patanjali (1991) and *Nonviolence to Animals, Earth, and Self in Asian Traditions* (1993), *Hinduism and Ecology* (2000), a co-edited volume, *Jainism and Ecology: Nonviolence in the Web of Life* (2002) and *Reconciling Yogas* (2003).

**Rick Clugston** is the Executive Director of Earth Charter US and Project Coordinator for the Earth Charter Scholarship Project at the Center for Environmental and Sustainability Education at Florida Gulf Coast University. He chairs the Coordinating Circle of The Widening Circle, a collaboration initiated by the Tellus Institute to advance a Global Citizens Movement. From 1991-2008, Rick was Executive Director of the Center for Respect of Life and Environment in Washington D.C. There he directed a variety of initiatives, including the Association of University Leaders for a Sustainable Future (1997-2007); Theological Education to Meet the Environmental Challenge (1992-1999); Earth Charter USA (1996-2006); and the Soul of Agriculture Project (1994-2001). Prior to coming to Washington, Dr. Clugston worked for the University of Minnesota for 11 years, first as a faculty member and later as a strategic planner. He received his doctorate in Higher Education from the University of Minnesota and his masters in Human Development from the University of Chicago.

**Peter Crane** is the Carl W. Knobloch, Jr. Dean of the School of Forestry & Environmental Studies at Yale University and Professor of Botany. Dean Crane's work focuses on the diversity of plant life: its origin and fossil history, current status, and conservation and use. From 1992 to 1999 he was director of the Field Museum in Chicago with overall responsibility for the museum's scientific programs. During this time he established the Office of Environmental and Conservation Programs and the Center for Cultural Understanding and Change, which today make up the Division of Environment, Culture, and Conservation (ECCo). From 1999 to 2006 he was director of the Royal Botanic Gardens, Kew, one of the largest and most influential botanical gardens in the world. His tenure at Kew saw strengthening and expansion of the gardens' scientific, conservation, and public programs. Dean Crane was elected to the Royal Society (the U.K. academy of sciences) in 1998. He is a fellow of the American Academy of Arts and Sciences, foreign associate of the U.S. National Academy of Sciences, a foreign member of the Royal Swedish Academy of Sciences, and a member of the German Academy Leopoldina. He was knighted in the U.K. for services to horticulture and conservation in 2004. Dean Crane currently serves on the Board of the Global Crop Diversity Trust, the Missouri Botanical Garden, the Chicago Botanic Garden, the Lady Bird Johnson Wildflower Center at the University of Texas, and the Gaylord and Dorothy Donnelley Foundation.

**Anne Marie Dalton** is a professor of Religious Studies at Saint Mary's University, Nova Scotia. She received her MA from Fordham University during which time she also studied under Thomas Berry. Her PhD in religion and culture is from Catholic University of America where she completed a dissertation on the work of Thomas Berry and Bernard Lonergan. Dr. Dalton has worked on Canadian International Development Agency (CIDA) projects dealing with the environment in China, Vietnam and Mongolia. She has also supervised student field work related to women and the environment in many countries including Uganda, Morocco, Nepal, and India. Her published works involve the areas of religion and ecology, women and religion, and religion and international development. She has two published books in the area of religion and ecology, *A Theology for the Earth: The Contributions of Thomas Berry and Bernard*

*Lonergan* (1999) and *Ecotheology and the Practice of Hope*, (co-authored with Henry Simmons), published by SUNY Press in October, 2010. Anne Marie is also a member of the Interfaith Coalition on Climate Change.

**Heather Eaton** is a professor at Saint Paul University, Ottawa, Ontario, Canada. She holds an Interdisciplinary Ph.D. in ecology, feminism and theology from the University of St. Michael's College, Toronto School of Theology, and a Master's of Divinity. She is engaged in religious responses to the ecological crisis, particularly the relationship between ecological, feminist and liberation theologies. She is committed to inter-religious responses to ecological crisis. Dr. Eaton has taught courses in these areas at St Michael's College, T.S.T.; Faculty of Environmental Studies, York University; and Saint Paul University. She is the author of *Ecofeminism and Globalization: Exploring Culture, Context, and Religion* (with Lois Ann Lorentzen, Rowman & Littlefield, 2003). She is involved in numerous conferences, workshops, teaching and publishing in these areas. Dr. Eaton is the co-founder of the Canadian Forum on Religion and Ecology.

**Lawrence Edwards** earned his Ph.D. in chemical-physics from Harvard University. He taught/researched at the American University of Beirut, Lebanon, Cal State University at Northridge, CA, and the California Institute of Technology before moving to the U.S. National Science Foundation. After 17 years of government service Larry finally realized the great need for a broader understanding of our deep past and left NSF to live and teach at Genesis Farm in Blairstown, NJ (associated with St. Thomas University, Miami, FL). He continues to teach there as well as at the California Institute of Integral Studies, and the Dominican eco-center in Wicklow, Ireland.

**Ursula W. Goodenough** is a Professor of Biology at Washington University in St. Louis and author of the bestselling book *Sacred Depths of Nature*. This highly regarded book has resulted in her teaching the paradigm of Religious Naturalism and the Epic of Evolution around the world and also her participation in television productions on PBS and The History Channel, as well as NPR radio broadcasting. Dr. Goodenough earned her M.A. in zoology from Columbia University and completed her Ph.D. at Harvard University. Goodenough was an assistant and associate professor of biology at Harvard from 1971-1978 before moving to Washington University where she wrote three editions of a widely adopted textbook, *Genetics*. Goodenough joined the Institute on Religion in an Age of Science (IRAS) in 1989 and served as its president for four years. She also served as president of The American Society for Cell Biology. She has presented papers and seminars on science and religion to numerous audiences and serves on the editorial board of *Zygon: Journal of Religion and Science*. In 2002, Ursula Goodenough was a member of a panel invited to participate in seminars on Western science for the Dalai Lama and his inner circle of monk-scholars. She is a Fellow of the American Academy of Arts and Sciences.

**William Grassie** received his doctorate in religion from Temple University in 1994 and his bachelor degree in political science and international relations from Middlebury College in 1979. He has taught in a variety of positions at Temple University, Swarthmore College, and the University of Pennsylvania. Prior to graduate school, Grassie worked for ten years in international relations and conflict resolution in Washington, D.C; Jerusalem, Israel; Berlin, Germany; and Philadelphia, PA. He is the recipient of a number of academic awards and grants

from the American Friends Service Committee, the Roothbert Fellowship, and the John Templeton Foundation. In 2007-2008, Grassie served as a Senior Fulbright Fellow in the Department of Buddhist Studies at the University of Peradeniya in Kandy, Sri Lanka. Grassie is the founding executive director of the Metanexus Institute, which works to promote the constructive engagement of religion and science. Metanexus has worked with some four hundred partners at universities in forty-five countries and publishes a monthly online academic journal with over ten thousand subscribers. Grassie is author of *The New Sciences of Religion: Exploring Spirituality from the Outside In and Bottom Up* (Palgrave Macmillian, 2010) and a collection of essays *Politics by Other Means: Science and Religion in the 21<sup>st</sup> Century* (Metanexus, 2010). Grassie has also edited two volumes: *Advanced Methodologies in the Scientific Study of Religion and Spirituality* (Metanexus, 2010) and *Transhumanism and Its Critics* (Metanexus, 2010) with Gregory Hansell. For more information, go to [www.metanexus.net](http://www.metanexus.net) and [www.grassie.net](http://www.grassie.net).

**John Grim** is a Senior Lecturer and Senior Research Scholar at Yale University, where he has appointments in the School of Forestry and Environmental Studies as well as the Divinity School and the Department of Religious Studies. He teaches courses in Native American and Indigenous religions and World religions and ecology. He does field work with the Crow people of Montana and Salish people of Washington state. His published works include: *The Shaman: Patterns of Religious Healing Among the Ojibway Indians* (University of Oklahoma Press, 1983) and, with Mary Evelyn Tucker, a co-edited volume entitled *Worldviews and Ecology* (Orbis, 1994). With Mary Evelyn Tucker, he directed a 10 conference series and book project at Harvard on "World Religions and Ecology," He edited *Indigenous Traditions and Ecology* (Harvard, 2001) and coedited the *Daedalus* volume titled *Religion and Ecology: Can the Climate Change?* (2001). He is co-founder and co-director of the Forum on Religion and Ecology at Yale with Mary Evelyn Tucker.

**David Haberman** is a Professor of Religious Studies at Indiana University.

*I am interested in a wide range of South Asian religious traditions, and concentrate on the medieval and modern movements of northern India. I have spent the past two and a half decades focusing my research on the culture of Braj, an active pilgrimage site known for its lively temple festivals, performative traditions, and literary creations. More recently I have shifted my research interests to include the ancient city of Banaras, a pilgrimage center and temple town located on the bank of the Ganges River. My approach combines both textual research and anthropological fieldwork. My passion these days is for the field of Religion and Ecology; I am involved in developing this emerging field and am currently on the Advisory Board of the Forum on Religion and Ecology. As a student of the religious cultures of India, I am interested in investigating the effects the current environmental degradation is having on the traditional religious culture which views the immanent world of nature as permeated with divine presence; I am also interested in learning how this traditional theology is being employed by Indian environmental activists to resist environmental degradation. My latest book, *River of Love in an Age of Pollution: The Yamuna River of Northern India* (University of California Press, 2006), is a study of the Yamuna River, which for centuries has been worshiped as a goddess. In this book I explore various conceptions of this aquatic goddess with texts stretching back over a period of three millennia and current ethnographic research at a number of temples located on the banks*

*of the river; I examine how the current pollution of the river is affecting the religious culture associated with it; and I track the manner in which the religious community associated with the river is marshalling its religious resources to fight the pollution of the river. My current book project, which is entitled People Trees: Worship of Trees in Northern India, explores the conception of trees in the context of the tree shrines of northern India while reexamining such concepts as animism and anthropomorphism. Moreover, I am engaged in a project that investigates Western constructions of Hinduism with the aim of opening up the study of those regions of Hindu culture that have been previously denied. Other interests include the study of ritual theory and practice, and exploration of theoretical approaches to the study of religion, especially as regards that never-ending question: "What is religion?"*

**John F. Haught** (Ph.D. Catholic University, 1970), is Senior Fellow, Science & Religion, Woodstock Theological Center, Georgetown University. He was formerly Professor in the Department of Theology at Georgetown University (1970-2005) and Chair (1990-95). His area of specialization is systematic theology, with a particular interest in issues pertaining to science, cosmology, evolution, ecology, and religion. He is the author of *Making Sense of Evolution: Darwin, God and the Drama of Life* (Westminster/John Knox Press, 2010); *God and the New Atheism: A Critical Response to Dawkins, Harris, and Hitchens* (Westminster/John Knox Press, 2008); and *Christianity and Science: Toward a Theology of Nature* (Orbis Press, 2007), to name just a few of his many books and articles. He lectures internationally on many issues related to science and religion.

**Leo Hickey** is Professor of Geology & Geophysics and Biology at Yale University.

*My research centers on reconstructing the evolutionary history of the flowering plants through the coordinated investigation of their comparative morphology and their fossil record.*

*Paralleling this has been my emphasis on the recognition of ancient plant communities and their environmental parameters, based not only on an interpretation of the fossil plants themselves but on a concomitant analysis of their sedimentary and stratigraphic context. We can now track specific plant communities over significant periods of geologic time (15-30 million years) to determine such things as comparative replacement rate of species or to correlate changes in plant composition and diversity with changes in climate, tectonic regime, sedimentology or the fauna. This has led me to concentrate on times of especially rapid floristic change such as at the appearance of the flowering plants in the early Cretaceous and the mass extinction that terminated the Mesozoic. My work on late Cretaceous and early Tertiary terrestrial strata of the Rocky Mountains and Great Plains of the United States provides evidence on the response of plants to the accumulating stresses of mountain building and climatic changes. On the other hand, data from rocks in the Canadian High Arctic give a look at plant adaptation in a unique environment that alternated between nearly frost-free to cold-temperate conditions during the late Cretaceous to early Miocene. Ultimately, I hope that such approaches will help to explain the reasons for the overwhelming diversity of the flowering plants and the historic consequences that the evolution of this group has had on the earth and its biosphere.*

**Willis Jenkins** is the Margaret A. Farley Assistant Professor of Social Ethics at Yale Divinity School. Professor Jenkins's research focuses on environmental ethics, sustainable communities,

global ethics, and theological ethics. He is author of *Ecologies of Grace: Environmental Ethics and Christian Theology*, published in 2008, editor of *The Spirit of Sustainability*, and co-editor of the forthcoming *Bonhoeffer and King: Receiving Their Legacies for Christian Social Thought*. Professor Jenkins previously taught at the University of Virginia and at a rural campus of Uganda Christian University. He has significant international experience in community development initiatives, was co-founder of the Episcopal Young Adult Service Corps, and served on the Episcopal Church's Standing Commission on World Mission, 2000–2006.

**Stephen R. Kellert** is the Tweedy Ordway Professor Emeritus of Social Ecology and Senior Research Scholar at the Yale University School of Forestry and Environmental Studies. He is also a member of the Board of Directors and Chief Environmental Officer of Bio-Logical Capital, a firm that invests in and implements multi-layer sustainable land uses on large landscapes. His work focuses on understanding the connection between nature and humanity with a particular interest in environmental conservation and sustainable design and development. His awards include: the 2010 Distinguished Alumni Service Award, Yale University School of Forestry and Environmental Studies; the 2009 George B. Hartzog Award for Environmental Conservation; the 2008 American Publishers Professional and Scholarly Best Book of Year Award in Architecture and Urban Planning for the book “Biophilic Design;” the 2005 Outstanding Research Award for contributions to theory and science, from the North American Association for Environmental Education; the 1997 National Conservation Achievement Award, from the National Wildlife Federation; the 1990 Distinguished Individual Achievement Award, from the Society for Conservation Biology; the 1985 Best Publication of Year Award, from the International Foundation for Environmental Conservation; and, the 1983 Special Achievement Award, from the National Wildlife Federation. Dr. Kellert is also listed and described in “American Environmental Leaders: From Colonial Times to the Present.” He has served on committees of the National Academy of Sciences, and has been a member of the board of directors of many organizations. He has authored more than 150 publications

**R. Craig Kochel** is Professor of Geology at Bucknell University, where he helped found the Environmental Center. His areas of research include fluvial geomorphology, hydrology, geologic hazards, and planetary geology. His books include *Process Geomorphology* with (Jerry Miller and Dale Ritter), *Sapping Features of the Colorado Plateau: a Comparative Planetary Geology* NASA Field Guide (with Alan D. Howard), and *Flood Geomorphology* (with Victor Baker and Peter Patton). He has conducted research in Alaska, New Zealand, Iceland, Chile, and many parts of the western and eastern United States.

**Thomas E. Lovejoy** became the first recipient of the newly created Heinz Center Biodiversity Chair in August 2008. Previously he served as President of the Heinz Center since May 2002. Before coming to The Heinz Center, he was the World Bank's Chief Biodiversity Advisor and Lead Specialist for Environment for Latin America and the Caribbean and Senior Advisor to the President of the United Nations Foundation. Dr. Lovejoy has been Assistant Secretary and Counselor to the Secretary at the Smithsonian Institution, Science Advisor to the Secretary of the Interior, and Executive Vice President of the World Wildlife Fund-U.S. He conceived the idea for the Minimum Critical Size of Ecosystems project (a joint project between the Smithsonian and Brazil's INPA), originated the concept of debt-for-nature swaps, and is the founder of the

public television series Nature. In 2001 he was awarded the prestigious Tyler Prize for Environmental Achievement. Dr. Lovejoy served on science and environmental councils or committees under the Reagan, Bush, and Clinton administrations. He received his B. S. and Ph.D. (biology) degrees from Yale University.

**Brendan Mackey** is Professor of Environmental biogeography, environmental conservation, cross-disciplinary studies in sustainability at the Fenner School of Environment and Society at the Australian National University. Brendan has worked as a research scientist with the CSIRO and the Canadian Forest Service. Brendan is member of the IUCN Council in his role as a regional councillor for Oceania. He is also a member of the Earth Charter International Council; the Cape York Region Scientific and Cultural Advisory Committee; and the steering committee of the TRIN CERF Hub. Brendan is also a member of the editorial board for Pacific Conservation Biology. He co-convenes the first year course "The Blue Planet: an introduction to Earth System science" and convenes the graduate course "Climate Change Vulnerability and Adaptation." In 2009, Prof Mackey gave invited presentations at a number of important international and national conferences including the World Climate Conference 3 held in Geneva, the World Science Forum in Budapest, and a 'side event' at the Copenhagen Climate Change Conference. He was an invited presenter at the Adelaide Festival of Ideas. Prof Mackey was also an invited member of the 2nd Ad Hoc Expert Group on Biodiversity and Climate change for the Secretariat of the Convention on Biological Diversity.

**Kathleen Dean Moore** is Distinguished Professor of Philosophy at Oregon State University and the founding director of the Spring Creek Project for Ideas, Nature, and the Written Word. An environmental philosopher, Moore writes about moral, spiritual, and cultural relationships to the natural world. Her new book, co-edited with Michael P. Nelson, is *Moral Ground: Ethical Action for a Planet in Peril*. It gathers responses from the world's moral leaders to the question, Do we have a moral obligation to the future to leave a world as rich in possibilities as the world we inherited? Moore is best known for her books of nature essays--*Wild Comfort: The Solace of Nature*, *Holdfast*, *Riverwalking*, and *The Pine Island Paradox*, winner of the Oregon Book Award. She is co-editor of *How It Is: The Native American Philosophy of V. F. Cordova* and *Rachel Carson: Legacy and Challenge*. Moore often writes beyond philosophical audiences in professional journals such as *The Journal of Forestry*, *Frontiers in Ecology*, and *Environmental Ethics*; and in popular journals such as *Discover*, *Audubon*, the *North American Review*, and *Orion*, where she serves on the Board of Directors. She speaks widely in public venues and on radio, including a recent conversation on climate ethics for NPR's "Philosophy Talk." Moore is a two-time "Master Teacher" and the recipient of a number of teaching honors, including the "OSU Alumni Distinguished Professor Award." She is currently helping to create an Environmental Humanities Initiative at Oregon State.

**Jeffrey Park** is Director of the Yale Institute for Biospheric Studies and professor of geology at Yale University. His interests and research include theoretical and observational seismology, geological time-series analysis, and the structure of Earth's subsurface.

*I am originally from Orange County, California. My interest in the earth sciences began after the 1971 earthquake in Sylmar, California tossed me from my bed. I was introduced to*

*plate tectonics the following year and was hooked on earth science for life. I received my Bachelor of Science Degree in Physics from Princeton University in 1979, where I worked as a go-fer in the geology department. I gave my first talk at an AGU meeting in 1980, arguing against a theory that large earthquakes could cause observable changes in the Earth's rotation axis. I received my Doctorate in Earth Sciences in 1985 from the University of California, San Diego. From 1985-1986, I did a post doc at Princeton University and from 1986 I have been on the faculty of Yale University.*

**Larry L. Rasmussen** is the Reinhold Niebuhr Professor of Ethics Emeritus at Union Theological Seminary, and is one of the world's foremost environmental theologians and Christian ethicists and an internationally recognized scholar on the German theologian, Dietrich Bonhoeffer. Dr. Rasmussen has mentored an entire generation of Christian theologians, ethicists, and church leaders, particularly in the emerging field of eco-theology and “green religion” —not only as an academic path but also as a way of living in the world. Rasmussen’s scholarship and his ability to inspire people from all walks of life have had a profound effect on the Church and the Academy and Society. He spearheaded the “greening” of Union as an institution and grounded his courses and scholarship in the practice of environmental justice with communities and community leaders, both in New York City and around the globe. His work in Christian ethics continues not only through his own busy speaking schedule, but also through the work of his former students—a prominent and important new generation of ethicists and activists. Rasmussen has published over a dozen books, including his ground-breaking 1996 *Earth Community, Earth Ethics*, winner of the 1997 Louisville Grawemeyer Award in Religion. He has published chapters in books, and articles in journals and magazines, from academic presses to popular and church-related publications. Since 2003 he has given over 110 lectures and presentations, and he has served as theologian-in-residence and visiting scholar at numerous institutions. Rasmussen has long been active in international ecumenical circles, particularly in the World Council of Churches, where he served for many years on the Justice, Peace, and Integrity of Creation Advisory Committee. He has been active in the Society of Christian Ethics for decades and served as the SCE president in 1990.

**Nicholas A. Robinson** has developed environmental law since 1969, when he was named to the Legal Advisory Committee of the President’s Council on Environmental Quality. He has practiced environmental law in law firms for municipalities and as general counsel of the New York State Department of Environmental Conservation. He drafted New York’s wetlands and wild bird laws and was inaugurated as the first chairman of both the statutory Freshwater Wetlands Appeals Board and Greenway Heritage Conservancy for the Hudson River Valley. He has served as legal advisor and chairman of the Commission on Environmental Law of the International Union for the Conservation of Nature and Natural Resources, engaged in drafting treaties and counseling different countries on the preparation of their environmental laws. He founded Pace University’s environmental law programs, edited the proceedings of the 1992 United Nations Earth Summit in Rio de Janeiro, Brazil, and is author of several books and numerous articles. He teaches a number of environmental law courses at Pace University School of Law and Yale University.

**Steven C. Rockefeller** is Professor Emeritus of Religion at Middlebury College, Vermont, where he taught for 30 years and served as dean of the college and chair of the religion

department. Among his publications are *John Dewey: Religious Faith and Democratic Humanism* (Columbia 1991), and *Spirit and Nature: Why the Environment is a Religious Issue* (Beacon, 1992). He chaired the international Earth Charter drafting committee and for the past five years served as co-chair of the Earth Charter International Council. Active in the field of philanthropy, he is a member of the board of trustees of the Rockefeller Brothers Fund, an international grant making foundation, which he chaired from 1998 to 2006.

**Scott Sampson** is a Canadian dinosaur paleontologist, evolutionary biologist, and science communicator who presently serves as Research Curator at the Utah Museum of Natural History, University of Utah. His research focuses on the ecology and evolution of Late Cretaceous dinosaurs, and he has conducted fieldwork in Kenya, Zimbabwe, South Africa, Madagascar, Mexico, the United States, and Canada. Currently, he is serving as the lead researcher on a large scale project in Grand Staircase-Escalante National Monument, southern Utah, which has yielded abundant remains of a previously unknown assemblage of dinosaurs. Sampson has published numerous scientific and popular articles, and has lectured extensively to audiences of all ages on dinosaurs, evolution, and astronomy. In addition to continuing dinosaur research, he is now pursuing a range of new projects focused on science education. Sampson was the primary scientific consultant and on-air host of the four-part Discovery Channel series *Dinosaur Planet*, and he is presently serving the same pair of roles for the PBS children's series *Dinosaur Train*, produced by the Jim Henson Company. Sampson recently completed a general audience book, *Dinosaur Odyssey: Fossil Threads in the Web of Life* (University of California Press, 2009), and is presently working on another book pertaining to the epic of evolution.

**Scott Russell Sanders** was born in Memphis, Tennessee, in 1945. His father came from a family of cotton farmers in Mississippi, his mother from an immigrant doctor's family in Chicago. He spent his early childhood in Tennessee and his school years in Ohio. He studied physics and English at Brown University, graduating in 1967. With the aid of a Marshall Scholarship, he pursued graduate work at the Cambridge University, where he completed his Ph.D. in English in 1971. From 1971 until his retirement in 2009, he taught at Indiana University, from 1995 onward as Distinguished Professor of English. Among his more than twenty books are novels, collections of stories, and works of personal nonfiction, including *Staying Put*, *Writing from the Center*, and *Hunting for Hope*. His latest books are *A Private History of Awe*, a coming-of-age memoir, love story, and spiritual testament, which was nominated for the Pulitzer Prize, and *A Conservationist Manifesto*, his vision of a shift from a culture of consumption to a culture of caretaking. He has received the Lannan Literary Award, the Associated Writing Programs Award in Creative Nonfiction, the Great Lakes Book Award, the Kenyon Review Literary Award, the John Burroughs Essay Award, and the Indiana Humanities Award, among other honors, and has received support for his writing from the Lilly Endowment, the Indiana Arts Commission, the National Endowment for the Arts, and the Guggenheim Foundation. The Society for the Study of Midwestern Literature named him the 2009 winner of the Mark Twain Award, and in 2010 he was named the National Winner of the Glick Indiana Authors Award. His writing examines the human place in nature, the pursuit of social justice, the relation between culture and geography, and the search for a spiritual path.

**Jonathan Schell** is the author of 13 books. They include *The Fate of the Earth* (Knopf, 1982), which received the *Los Angeles Times* book prize, among other awards, and was nominated for the Pulitzer Prize, the National Book Award, and the National Critics Award; *Observing the Nixon Years* (Pantheon, 1989); and *The Unconquerable World: Power, Nonviolence, and the Will of the People* (Metropolitan, 2003), which Richard Falk in the *Times* called "the most impressive argument ever made that there exists a viable and desirable alternative to a continued reliance on war." In 2006, Nation Books published *The Jonathan Schell Reader: On the United States at War, the Long Crisis of the American Republic, and the Fate of the Earth*. His most recent book is *The Seventh Decade: The New Shape of the Nuclear Danger* (Metropolitan, 2007). According to a *New York Times* review, Schell's "careful assembly of the available evidence will scare the pants off most readers." Schell graduated from Harvard University in 1965. He was a staff writer at *The New Yorker* and a columnist for *Newsday*. He has taught at many universities, including Princeton, Emory, New York University, the New School, Wesleyan University and the Yale Law School. He is currently a Visiting Lecturer at Yale College. In 1987, he was a fellow at the Institute of Politics at the John F. Kennedy School of government and in 2002 a fellow at the Kennedy School's Shorenstein Center on the Press, Politics, and Public Policy. In 2003, he was a visiting lecturer at the Yale Law School, and in 2005, a Distinguished Visiting Fellow at Yale's Center for the Study of Globalization. Since 1998, he has been a Senior Fellow at The Nation Institute, where he is now based, and the Peace and Disarmament Correspondent for *The Nation* magazine. Schell is now the Doris Shaffer Fellow at the Institute.

**Oswald J. Schmitz** is Oastler Professor of Population and Community Ecology at Yale University. Professor Schmitz's research examines the dynamics and structure of terrestrial food webs. His specific focus is on plant-herbivore interactions and how they are shaped by carnivores and soil-nutrient levels, both at the level of herbivore foraging ecology and plant-herbivore population dynamics. He is also examining how natural systems are resistant and resilient to natural and human-induced disturbances. His approach involves developing mathematical theories of species interactions in food webs and testing these theories through field experiments. The work deals with a variety of ecosystems and herbivore species, ranging from moose deer and snowshoe hare in northern Canadian forests to insects in New England old-field ecosystems.

**Fred Simmons** is Assistant Professor of Ethics at Yale Divinity School. Professor Simmons's research and teaching examine the moral implications of Christian theological commitments and the relationships between philosophical and theological ethics. He is completing a book on the ethical and potential soteriological significance of biology for contemporary Christians, and is co-editing a volume on love and Christian ethics. He has taught at Amherst College, La Universidad Politécnica Salesiana, and La Pontificia Universidad Católica del Ecuador.

**Ann Berry Somers** is a Lecturer in Biology at the University of North Carolina, Greensboro.

*My work centers on the biology and conservation of some small turtles found in North Carolina. Bog turtles (Glyptemys muhlenbergii), found in the western part of the state, are studied using mark-and-recapture, radio telemetry, and trapping methods. I am one of the directors of Project Bog Turtle, a non-profit organization whose mission is to preserve habitat, and advise state and federal agencies in conservation of the turtles. We also survey to locate new populations and monitor and study population densities in selected sites. Additionally, I lead a Box Turtle Research Group which is initiating a project using citizen scientists to gather data about the declining box turtle (Terrapene carolina), once common throughout our state.*

**Dan Spencer** teaches in the Environmental Studies program at the University of Montana where he focuses on issues of globalization, Latin America, community participation in ecological restoration, and environmental ethics and theology. Dan's undergraduate degree is in geology from Carleton College, which also included three summers teaching geology field camp in the Tobacco Root Mountains of southwest Montana, and three summers working and climbing in Glacier Park. He has graduate degrees in theology and ethics from Union Theological Seminary in New York, and spent 10 years teaching in a Religion and Philosophy Program at Drake University in Iowa before moving to Montana just in time for the fires of 2000. Dan grew up on the West Coast and in Colorado, and spent most of his adult life trying to find a way to get back to the West from Minnesota, New York and Iowa. He's been teaching at the University of Montana since 2002, and now that he's back in Montana, he hopes to never move again.

**Fred Strebeigh** is Senior Lecturer in Environmental Writing at the School of Forestry and Environmental Studies and Senior Lecturer in the English Department at Yale University. Fred Strebeigh has written for publications including American Heritage, Atlantic Monthly, Audubon, E: The Environmental Magazine, Legal Affairs, New Republic, Reader's Digest, Russian Life, Sierra, Smithsonian, and the New York Times Magazine. Topics on which he has published include: the history and origins of nature writing; the influence of nature on artistic form; the role of the bicycle in China; educational exchange between China and the United States; pressures on the Antarctic treaty system; natural and social conditions in the Falkland Islands; traces of early man in southern Africa; saving whales from fishing nets off the coast of Newfoundland; the impact of environmental issues on the presidential election in 2004, and defending the world's largest system of scientific nature reserves in Russia. His teaching in 2004 received Yale's DeVane medal, presented each year by Phi Beta Kappa to one member of the university's active faculty, and in 2009 at Yale commencement received the Brodhead Prize for Teaching Excellence. [www.strebeigh.com](http://www.strebeigh.com)

**Brian Swimme** is a professor at the California Institute of Integral Studies in San Francisco. He received his Ph.D. from the Department of Mathematics at the University of Oregon in 1978 for work in gravitational dynamics. He brings the context of story to our understanding of the 13.7 billion year trajectory of cosmogenesis. Such a story, he feels, will assist in the emergence of a flourishing Earth community. Swimme is the author of *The Hidden Heart of the Cosmos* and *The Universe is a Green Dragon*. He is co-author of *The Universe Story*, which is the result of a 10 year collaboration with the cultural historian, Thomas Berry. Swimme is also the creator of three educational video series: *Canticle to the Cosmos* (1990), *Earth's Imagination* (1998),

and *The Powers of the Universe*(2006). He lectures widely and has presented at conferences sponsored by the American Association for the Advancement of Science, The World Bank, UNESCO, The United Nations Millennium Peace Summit, and the American Museum of Natural History.

**Mary Evelyn Tucker** is a Senior Lecturer and Senior Scholar at Yale University where she has appointments in the School of Forestry and Environmental Studies as well as the Divinity School and the Department of Religious Studies. She is a co-founder and co-director with John Grim of the Forum on Religion and Ecology. Together they organized a series of ten conferences on World Religions and Ecology at the Center for the Study of World Religions at Harvard Divinity School. They are series editors for the ten volumes from the conferences distributed by Harvard University Press. She is also Research Associate at the Reischauer Institute of Japanese Studies at Harvard. She is the author of *Worldly Wonder: Religions Enter Their Ecological Phase* (Open Court Press, 2003), *Moral and Spiritual Cultivation in Japanese Neo-Confucianism* (SUNY, 1989) and *The Philosophy of Qi* (Columbia University Press, 2007). She co-edited *Worldviews and Ecology* (Orbis, 1994), *Buddhism and Ecology* (Harvard, 1997), *Confucianism and Ecology* (Harvard, 1998), and *Hinduism and Ecology* (Harvard, 2000) and *When Worlds Converge* (Open Court, 2002). With Tu Weiming she edited two volumes on *Confucian Spirituality* (Crossroad, 2004). She also co-edited a *Daedalus* volume titled *Religion and Ecology: Can the Climate Change?* (2001). She edited several of Thomas Berry's books: *Evening Thoughts* (Sierra Club Books and University of California Press, 2006), *The Sacred Universe* (Columbia University Press, 2009), *Christian Future and the Fate of Earth* (Orbis Book, 2009). She is a member of the Interfaith Partnership for the Environment at the United Nations Environment Programme (UNEP). She served on the International Earth Charter Drafting Committee from 1997-2000 and is a member of the Earth Charter International Council.

**Julianne Lutz Warren** is author of *Aldo Leopold's Odyssey* (published under the surname Newton), an intellectual biography of the twentieth-century American conservation ecologist and author of *A Sand County Almanac*. Her work unfolds Leopold's journey to better understandings of harmonious human-nature relationships. Julianne has published a number of essays on related subjects and is presently working on a second book aimed at envisioning fresh, authentic stories connecting human happiness, utopian imagination, and real places into the unknown twenty-first century. Julianne has a Ph.D. in wildlife ecology from the University of Illinois Urbana-Champaign. She has served as past president of The John Burroughs Institute in Roxbury, NY and is on the Council of the Association for Environmental Studies and Sciences. Julianne is a member of the Global Liberal Studies faculty at New York University, which allows her the present joy of running around Central Park in the snow before dawn.

**Terry Tempest Williams** has been called "a citizen writer," a writer who speaks and speaks out eloquently on behalf of an ethical stance toward life. A naturalist and fierce advocate for freedom of speech, she has consistently shown us how environmental issues are social issues that ultimately become matters of justice. "So here is my question," she asks, "what might a different kind of power look like, feel like, and can power be redistributed equitably even beyond our own species?" Williams, like her writing, cannot be categorized. She has served time in jail for acts of civil disobedience, testified before Congress on women's health issues, been a guest at the White

House, has camped in the remote regions of Utah and Alaska wildernesses and worked as "a barefoot artist" in Rwanda. Known for her impassioned and lyrical prose, Terry Tempest Williams is the author of the environmental literature classic, *Refuge - An Unnatural History of Family and Place*; *An Unspoken Hunger - Stories from the Field*; *Desert Quartet*; *Leap*; *Red - Passion and Patience in the Desert*; and *The Open Space of Democracy*. Her new book *Mosaic: Finding Beauty in a Broken World*, will be published in 2008 by Pantheon Books. In 2006, Ms. Williams received the Robert Marshall Award from The Wilderness Society, their highest honor given to an American citizen. She also received the Distinguished Achievement Award from the Western American Literature Association and the Wallace Stegner Award given by The Center for the American West. She is the recipient of a Lannan Literary Fellowship and a John Simon Guggenheim Fellowship in creative nonfiction. In 2009, Terry Tempest Williams was featured in Ken Burns' PBS series on the national parks. Terry Tempest Williams is currently the Annie Clark Tanner Scholar in Environmental Humanities at the University of Utah. She has also been a Montgomery Fellow at Dartmouth College where she continues to teach. An acclaimed lecturer on college and university campuses, her writing has appeared in *The New Yorker*, *The New York Times*, *Orion Magazine*, and numerous anthologies worldwide as a crucial voice for ecological consciousness and social change. She and her husband, Brooke Williams, divide their time between Wilson, Wyoming and Castle Valley, Utah, where her husband, Brooke serves as field coordinator for the Southern Utah Wilderness Alliance.