

Contributors

David Baker studied his PhD in Big History at Macquarie University in Sydney under David Christian. He now teaches Big History at the universities of Amsterdam, Eindhoven, and Rotterdam alongside Fred Spier and Esther Quaedackers. His research interests include Universal Darwinism, collective learning, the rise of complexity, and demographic-structural theory. He is a co-editor of the *2012 IBHA Conference Proceedings*, together with Andrey Korotayev, Leonid Grinin, and Esther Quaedackers. He is also engaged with the IBHA Publications Committee in setting up a Big History academic journal out of a prestigious (but currently unnamed) university press.

Henri J. M. Claessen is a cultural anthropologist specialized in the early state and Professor Emeritus in Social Anthropology at Leiden University. He is an honorary member of several scholarly institutions (Koninklijk Instituut voor Taal-, Land- en Volkenkunde [Royal Institute for Languages and Anthropology of the Royal Academy of Sciences]; Center for Asian and Pacific Studies (University of Nijmegen); Honorary Lifetime Member of the IUAES (International Union of Anthropological and Ethnological Sciences). His thesis, *Of Princes and Peoples*, is a comparative study of the political organization of five Early States (Tahiti, Tonga, Dahomey, Buganda and the Realm of the Incas). This study lay at the basis of *The Early State* (1978) which he edited with Petr Skalník. In 1981, again with Petr Skalník, he edited *The Study of the State*. In later years he edited with M. Estellie Smith and Pieter van de Velde *Development and Decline* (1985); with Pieter van de Velde *Early State Dynamics* (1987), and *Early State Economics* (1991); with Jarich G. Oosten *Ideology and the Formation of Early States* (1996). With Renee Hagesteijn and Pieter van de Velde he edited a special issue of the journal *Social Evolution & History* under the title 'Thirty Years of Early State Research' (2008).

Father Christopher J. Corbally is an astronomer with the Vatican Observatory Research Group, for which he has served as Vice Director, and liaison to its headquarters at Castel Gandolfo, Italy. He is an Adjunct Associate Astronomer at the Department of Astronomy, University of Arizona, and ministers to a wide variety of Catholics, including Native Americans, in Tucson, Arizona. He earned his doctorate in Astronomy at the University of Toronto in 1983. His dissertation was on 'Close Visual Binaries: MK Spectral Classification and Evolutionary Status'.

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lution: World System Transformations (2009, in Russian; with Andrey Korotayev); *Macroevolution in Biological and Social Systems* (2008, in Russian; with Alexander Markov and Andrey Korotayev); *Global Crisis in Retrospective: A Brief History of Upswings and Crises* (2010, in Russian; with A. Korotayev); *The Evolution of Statehood: From Early State to Global Society* (2011); *From Confucius to Comte: The Formation of the Theory, Methodology and Philosophy of History* (2012, in Russian); *Macrohistory and Globalization* (2012); *Cycles, Crises, and Traps of the Modern World-System: Kondratiev's, Juglar's and Secular Cycles, Global Crises, and the Malthusian and Post-Malthusian Traps* (2012, in Russian; with A. Korotayev); *Big History: Cosmic Evolution* (2013, in Russian).

Maciej Henneberg is a Foundation Wood Jones Professor of Anthropological and Comparative Anatomy at the University of Adelaide, Adjunct Professor at Flinders University of South Australia and a Professor of Biological Sciences in the Republic of Poland. Before coming to Adelaide in 1996 he was Professor of Anatomy and Human Biology at the University of the Witwatersrand. He has published 283 full-length papers/book chapters, edited three monographs and co-authored four books including two editions (2008, 2010) of *The Hobbit Trap*. Henneberg is the Editor-in-Chief of *HOMO – Journal of Comparative Human Biology* (Elsevier). He has contributed papers to biological anthropology, prehistoric and classical archaeology, demography, genetics, comparative anatomy of mammals, clinical anatomy, forensic sciences and law. Among his major interests is the evolution of human brain.

Tony Harper, professor at New Trier College, regular contributor to the almanac 'History & Mathematics'.

Sergey P. Klykov, for many years worked in the Institute of Applied Microbiology (Obolensk, Moscow Region). He is a co-author (with Victor V. Derbyshev who is the author of a non-structured model) of the integrated development model for the time-varying systems, and a co-author (with Vladimir V. Kurakov) of the development model in steady-state conditions. He performed calculations of experimental data on the integrated mathematical model of development.

Andrey V. Korotayev is Senior Research Professor of the Oriental Institute and Institute for African Studies, Russian Academy of Sciences. In addition, he heads the Laboratory of Monitoring of the Risks of Sociopolitical Destabilization at the National Research University, Higher School of Economics. He works also as a Senior Research Professor at the Laboratory of Political Demography and Macrosocial Dynamics of the Russian Academy of National Economy and Public Administration, as a Professor of the Faculty of Global Studies of the Moscow State University and as Professor and the Head of the Department of Modern Asian and African Studies, Russian State University for the Humanities. He is the author of over 300 scholarly publications, including such monographs as *Ancient Yemen* (1995), *World Religions and Social Evolution of the Old World Oikumene Civilizations: A Cross-Cultural Perspective* (2004), *Introduction to Social Macrodynamics: Compact Macromodels of the World System Growth* (2006), *Introduction to Social Macrodynamics: Secular Cycles and Millennial Trends* (2006), *Macroevolution in Biological and Social Systems* (2008, in Russian; with Alexander Markov and Leonid Grinin); *Global Crisis in Retrospective: A Brief History of Upswings and Crises* (2010, in Russian; with Leonid Grinin), and *Cycles, Crises, and Traps of the Modern World-System* (2012, in Russian; with Leonid Grinin). At present, together with Askar Akaev and Georgy Malinetsky, he coordinates the Russian Academy of Sciences Presidium Project 'Com-

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Jaliya S. Kumaratilake is a Senior Lecturer in anatomy at Discipline of Anatomy and Pathology, School of Medical Sciences, University of Adelaide, South Australia, Australia. He holds a PhD (1984) in Veterinary Pathology from Murdoch University, Western Australia, Australia and Bachelor of Veterinary Science (1974) from School of Veterinary Sciences, University of Ceylon (Sri Lanka). His research interests lie in the areas of trace element biology, connective tissue biology, neurobiology and medical education. In addition, he is a dedicated teacher and teaches Anatomy and Comparative Anatomy to undergraduate Medical and Science students and Anatomy to surgical and radiology trainees.

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David LePoire is an Environmental Analyst at the U.S. Department of Energy's Argonne National Laboratory near Chicago. He has focused his research in the intersection of energy, environment, and economics. This includes Big History time scales as well as modern transitions, and potential future scenarios. He has been involved with many physics research including developing oil exploration tools, holographical optical traps, radionuclide environmental transport, and ion sputtering. He integrates models and data for environmental analysis and software development.

George Modelski is Professor Emeritus, Political Science, at the University of Washington, Seattle (USA). His most recent books are *World Cities: -3000 to 2000* (2003), and *Globalization as Evolutionary Process* (co-editor, 2008). In 2012 he was awarded with the Bronze Kondratieff Medal by the International Kondratieff Foundation 'for an outstanding contribution to the development of social sciences'.

Margaret Boone Rappaport is a cultural anthropologist who works as a futurist and science fiction novelist in Tucson, Arizona. As President, Policy Research Methods, Incorporated, Falls Church, Virginia, she was a contractor to federal and state agencies for over twenty years. She lectured in Sociology and Anthropology at Georgetown and George Washington Universities. She earned her doctorate at the Ohio State University in 1977. Her dissertation was on the adjustment of the Cuban refugee women and families.

Neil Robinson is Professor of Comparative Politics in the Department of Politics and Public Administration, and Director of the Institute for the Study of Knowledge and Society, University of Limerick, Ireland. He previously worked at the universities of York and Essex in the United Kingdom. He has published widely on Soviet and post-Soviet politics. His publications include *Ideology and the Collapse of the Soviet System* (1995), *Post-Communist Politics* (1997), *Institutions and Political Change in Russia* (2000), *Russia: A State of Uncertainty* (2002), *State-Building. Theory and Practice* (2007), *The Sage Handbook of Comparative Politics* (2009), and *The Political Economy of Russia* (2012), as well as articles in journals such as *European Journal of Political Research*, *Political Studies*, *The Journal of Communist Studies and Transitional Politics*, *Review of International Political Economy*, *Europe-Asia Studies*,

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Gregory Sandstrom is a Postdoctoral Fellow with the Lithuanian Research Council and lecturer at the European Humanities University in Vilnius, Lithuania. His academic background is in sociology, economics and philosophy, with the bachelor's degrees done in Canada, master's degree in the Netherlands, and PhD (aspirantura) in Russia at the Sociological Institute of the Russian Academy of Sciences, St. Petersburg. His work focuses on the history, philosophy and sociology of science and technology, including innovation, development and transformation, as well as mass media, communications and higher education reforms.

Arthur Saniotis is currently a Visiting Research Fellow in the School of Medical Sciences, the University of Adelaide. He completed his PhD in 2002 where he examined altered states of consciousness among Indian Sufis. He has had a varied teaching and research history and has published over 100 articles and book chapters in social and health sciences. His current research interests are in the areas of evolutionary medicine, future studies, medical anthropology, shamanism and mind/body medicine. He is always interested in collaborating with scholars worldwide with a view of sharing knowledge and improving our understanding of the world.

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William R. Thompson is Distinguished Professor and Donald A. Rogers Professor of Political Science at Indiana University, Bloomington. He is also the Managing Editor of *International Studies Quarterly*. The recent books include *Asian Rivalries: Conflict, Escalation and Limitations on Two-level Games*; *Handbook of International Rivalries, 1494–2010*; and *The Arc of War: Origins, Escalation and Transformation*. Forthcoming in 2013 are *How Rivalries End: Shocks, Expectations and Reciprocity/Reinforcement* and *Theories and Scenarios of Systemic Transition: China and the United States in the Twenty-first Century*.

Joseph Voros started out as a physicist, and has a PhD in theoretical physics. During this time he worked on mathematical extensions to the General Theory of Relativity. This was followed by several years with internet-related companies, including the legendary Netscape Communications Corporation in Silicon Valley (California), before becoming a professional futurist. For over a decade he has taught courses on thinking seriously about the future. Wherever possible – whether in formal teaching or in popular speaking – he endeavors to emphasize an expanded perspective on our place in the Universe, which includes cosmic evolution and Big History. His interests are broadly multidisciplinary and include the emerging field of 'integral inquiry', theories and models of social change, the long-term future of humankind, astrobiology/SETI, and the broad sweep of cosmic evolutionary history as a framework for conceptualizing the human knowledge quest and futures research. Three of his research articles have won excellence awards, including an Outstanding Paper Award in 2010. He is a member of the World Futures Studies Federation, a professional member of the World Future Society, and is a founding member and current board member of the International Big History Association.