Contributors

John M. ("Jake") Barrow is senior exhibit specialist/architectural conservator in the Historic Architecture Program, Intermountain Regional—Santa Fe, of the National Park Service. Before joining the NPS in 1978, he had ten years of experience in private sector contracting, carpentry, and woodworking. He specializes in wood and adobe preservation and manages two major university cooperative programs. He earned a BFA from the University of North Carolina at Chapel Hill and has conservation certificates from ICCROM's International Centre for the Study of Preservation and Restoration of Cultural Property: the architectural conservation course (1984) and the Venice stone course (1989).

Maribel Beas is a preservation architect and architectural conservator in private practice. She is a registered architect and received a master's degree in historic preservation from the University of Pennsylvania. A former chair of the US/ICOMOS Earthen Architecture Committee, she has a particular interest in the conservation of earthen historic structures and their decorated surfaces. As founder of the nonprofit organization Patrimonio Perú, Beas has secured several conservation grants for historic earthen structures in Peru.

Marcial Blondet is professor of civil engineering and dean of the graduate school at the Pontificia Universidad Católica del Perú (PUCP), where he graduated in 1973 as a civil engineer. He obtained a master of engineering (1979) and a PhD (1981) at the University of California, Berkeley (UCB). From 1992 to 1999 he worked as principal development engineer at UCB's Department of Civil Engineering, where he was in charge of all of the department's laboratories and conducted several full-scale tests of structural components.

Claudia Cancino is an associate project specialist in the Field Projects department of the GCI, where she works on the Earthen Architecture Initiative. She graduated in architecture and urban planning from Universidad Ricardo Palma in Lima, Peru, and earned a certificate in conservation at ICCROM in 1995. Cancino practiced preservation architecture and was on the faculty at the Universidad Peruana de Ciencias Aplicadas (UPC) in Lima (1996–99), teaching restoration of monuments and earthen building techniques. She earned a master of science in historic preservation (2001) and an advanced certificate in conservation (2002) from the University of Pennsylvania.

Charu Chaudhry is a conservation architect. She received an MS in historic preservation from the University of Pennsylvania and a BArch in India. Her master's thesis focused on the use of grouts as a structural repair technique for earthen buildings in seismic areas. She was a US/ICOMOS intern (2002 and 2005) and a Charles Wallace Conservation Fellow (2004). Chaudhry has worked on several field and research projects related to the documentation, risk assessment, and conservation of cultural heritage in India, Great Britain, and the United States.

Steade R. Craigo is a senior restoration architect with the California State Parks Office of Historic Preservation. He received his bachelor of architecture degree from

Clemson University (1970) and a diploma in conservation studies from York University, UK (1976). Craigo has worked on numerous historic earthen structures. He was inducted into the American Institute of Architects College of Fellows for his work on disaster response and preparedness. He is a former acting state historic preservation officer, a former member of the California State Historical Building Safety Board, and a former trustee of US/ICOMOS. He is currently a trustee of the California Preservation Foundation.

Dina D'Ayala is a senior lecturer in structures in the Department of Architecture and Civil Engineering of the University of Bath, UK. She obtained a first degree and a doctorate in structural engineering from the Faculty of Engineering, Università degli Studi di Roma, La Sapienza. She has eighteen years of research experience and has written more than sixty international publications on the seismic behavior of historic monuments and on the seismic vulnerability of historic masonry buildings.

Dominic M. Dowling earned his doctorate at the University of Technology, Sydney. His dissertation, entitled "Seismic Strengthening of Adobe-Mudbrick Houses," involved extensive experimental testing coupled with field research and application, mostly in El Salvador. Dowling is currently engaged in disaster risk reduction initiatives in the Middle East, Asia, and Latin America.

Stephen Farneth is a founding principal of Architectural Resources Group and has thirty years of experience in the field of architecture and planning. His background includes training in architectural conservation from ICCROM. An expert in the design and rehabilitation of architecturally significant buildings and sites, he is currently vice chairman of US/ICOMOS.

Mohammed Hamdouni Alami earned his PhD from the University of California, Berkeley. After completing his *baccalauréat* in a Moroccan *lycée,* he studied architecture in Grenoble, France. He has taught at the École Nationale Supérieure d'Architecture de Grenoble and at the École Nationale d'Architecture de Rabat in Morocco. In addition to teaching, he has practiced as an architect. Hamdouni Alami left the *école* in 2005 to lead an international team in developing building and seismic codes for traditional earthen architecture in Morocco.

Mary Hardy is a senior project specialist for the Field Projects department of the GCI, where she manages the Earthen Architecture Initiative. She managed the institute's El Salvador Earthquake Relief Project (2001–2) and is a member of the international scientific advisory board for the development of building codes for traditional materials in Morocco. She holds an MArch from the University of California, Berkeley, and an MS in historic preservation from Columbia University. She also pursued postgraduate training in architecture and urban design for historic cities at the International Laboratory of Architecture and Urban Design (ILAUD) in Italy.

John Hurd received his BSc in the geology of clays, earned a two-year conservation science diploma at the University of Lincoln in the UK, and an "objects" higher national diploma, which included placements in the department of sculpture conservation at the Victoria and Albert Museum. In 2000 he started Hurd Conservation International. Hurd is a senior conservation consultant to the UNESCO World Heritage Centre. He chaired the ICOMOS-UK National Earth Committee from 1994 to 2000 and was elected president of the ICOMOS International Scientific Committee on Earthen Architectural Heritage in 2006.

Bilge Isik graduated in architecture from the Fine Arts Academy (DGSA) in Istanbul and worked as a project manager and later as field manager for a construction company. In 1978 she joined the Istanbul Technical University Architectural Faculty, Construction Technology Department, where she received her PhD in 1991. She has lectured on building element design and construction technology, building substructure and ground, projecting in steel, detailing indoor partitions, and conceptual design of building elements.

Mohammad Shariful Islam is an assistant professor in the Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET). At present, he is a Japan Society for the Promotion of Science postdoctoral fellow at Saitama University, Japan. His special areas of interest are seismic behavior of adobe structures and liquefaction. He obtained his MSc

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Kazuyoshi Iwashita is an associate professor at the Department of Civil and Environmental Engineering, Saitama University, Japan. His special fields of interest are micromechanics of granular materials in quasi-static state and rapid flow state, and reinforcement of adobe structures. He earned his MEng and DEng degrees from the University of Tokyo. Iwashita was given the Award for Young Researchers by the Japan Society of Civil Engineers in 1992.

Hugh Morris is a senior lecturer at the University of Auckland, with primary responsibility for teaching introductory design, timber engineering, and the legal, ethical, and environmental aspects of professional engineering. Morris has conducted research on the seismic and durability performance of earth buildings and has served on committees developing the New Zealand earth building code. His current work is on a soil-cement fiber composite for low-cost earth buildings with specific appeal for the indigenous Maori people.

Patricia Navarro Grau is the principal of Patrimonio Perú, a nonprofit association dedicated to historic preservation in Peru, which she cofounded in 1999. She earned her bachelor of architecture degree at the Rhode Island School of Design and received a master's degree from the School of Architecture at the Universidad Politécnica de Madrid. She entered private practice in 1992 and has been involved in a number of public and private preservation projects in Lima.

Gail Ostergren is a research associate with the GCI, where she works with publications and provides research support to a variety of projects, including the Earthen Architecture Initiative, the Getty Seismic Adobe Project, and the Los Angeles Historic Resource Survey project. In 2005 she earned a PhD in history from the University of California, Los Angeles, where she specialized in urban, architectural, and cultural history.

Stefania Pandolfo is associate professor of anthropology at the University of California, Berkeley. Educated in Italy and the United States, she has lived an extended part of her life in Morocco. Her work has centered on cultural hermeneutics, memory, and the study of forms of knowledge and techniques—from poetry to building to traditional medicine, with a focus on Arab civilization and Islam and the question of postcoloniality. Her current research and publications include participation in the Morocco seismic project, and a study of transnational migration, youth, and the return of theological vocabularies.

Douglas Porter holds a master of science in historic preservation from the University of Vermont (UVT). From 2002–6, he was on the research faculty and served as the field study coordinator of the UVT graduate program in historic preservation. Between 2002 and 2007, he was the field services representative for the Preservation Trust of Vermont and the National Trust for Historic Preservation, offering technical assistance to Vermont communities working on historic preservation projects. Porter's background is in the building trades, including preservation work as a general contractor, and with the Architectural Conservation Projects Program of the National Park Service, Santa Fe Regional Office.

Bijan Samali is director of the Centre for Built Infrastructure Research at the University of Technology, Sydney. His research interests include structural control, damage detection in bridges, wind and earthquake engineering, and the use of smart materials in engineering applications. He has published over 250 technical papers and has over twenty-five years of experience as a consulting senior engineer and as an academic covering many areas, including the dynamic testing, analysis, and modeling of structures.

Sandeep Sikka is a conservation architect. He holds a master's degree in architectural materials conservation from Bournemouth University, UK, and is pursuing doctoral research on the conservation of ancient Buddhist temples in the western Himalayan region, at the Universität für angewandte Kunt Wien, Institut für Konservierung und Restaurierung. He has worked on the conservation of Buddhist structures and vernacular architecture in the Indian Himalayas. In 2002 he was awarded the Frederick Williamson Memorial Fund from the Museum of Archaeology and Anthropology,

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Nicola Tarque is a research assistant and a lecturer in civil engineering at the Pontificia Universidad Católica del Perú (PUCP) and at the Universidad Nacional San Luís Gonzaga (UNICA) in Peru. He obtained a master's degree in civil engineering at PUCP in 2005. He participates in research projects on the reduction of seismic vulnerability of masonry dwellings and earthen buildings, and he has been in charge of the construction and reinforcement of full-scale adobe models that have been tested in the seismic simulator at the PUCP.

E. Leroy Tolles is principal of ELT and Associates and holds a PhD in engineering from Stanford University. He conducts structural engineering research, analysis, investigation, and design of new and existing buildings, primarily with regard to their seismic performance. Currently the majority of his work consists of designing the retrofits for historic adobe buildings. He has also performed extensive investigations of earthquake-damaged wood-framed and earthen buildings. Tolles was principal investigator for the Getty Seismic Adobe Project.

Daniel Torrealva is principal professor of engineering at Pontificia Universidad Católica del Perú (PUCP), where he has taught since 1975. He graduated as a civil engineer from PUCP in 1972. He received his master's degree from the University of California, Los Angeles, in 1980. He is currently a member of the ICOMOS International Scientific Committee on Earthen Architectural Heritage and a member of ICOMOS-Perú. Since 1980 he has been involved in experimental research on the seismic resistance of adobe and brick masonry buildings. He is also member of the national committee for the elaboration of several adobe, seismic, and masonry building codes.

Julio Vargas Neumann is principal professor in the engineering department at Pontificia Universidad Católica del Perú. He started teaching in 1963 and became chief of the engineering department in 1969. Since 1970 he has led a research team for the study of earthen construction in seismic areas. He was professor of earthquake engineering and dynamics of structures. In 1985 he became vice minister of housing and was in charge of the dissemination and implementation of various programs supporting earthen construction across Peru.

Frederick A. Webster has a PhD in structural engineering from Stanford University and has researched, tested, designed, and developed building code standards for earthen construction since 1981. He participated in research and development of seismic upgrade techniques for existing earthen structures sponsored by the National Science Foundation during the 1980s and was a member of the Getty Seismic Adobe Project research team. He has designed seismic retrofits and upgrades for several historic and older adobe buildings in California.