

The Handbook of Contemporary Indigenous Architecture

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Editors

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 Springer

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This book is respectfully dedicated to our fathers, Berthold Enderl (1930–2016), Hugh Greenop (1941–2017), Palaiali'i Farani Refiti (1932–2009) and John Richard Glenn (1938–).

We would like to acknowledge the role our fathers have played in each of our lives. Elizabeth's father, Bert, and Kelly's father, Hugh, both passed away during the preparation of this book. Albert's father, Palaiali'i, passed away a few years earlier, and Albert is a father and grandfather himself. Daniel is also a father and continues to work in partnership with his father, John.

This book is dedicated to our fathers, and fathers everywhere, acknowledging the importance that they have in developing strong, resilient children, families and communities.

Elizabeth Grant, Kelly Greenop,
Albert L. Refiti, Daniel J. Glenn

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About the Editors

Professor Elizabeth Grant is an architectural anthropologist, criminologist and academic with a distinguished record in the field of Indigenous architecture. From 2000–2017, Elizabeth was a Senior Research Fellow at the University of Adelaide. Elizabeth holds an adjunct Professorship at the University of Canberra and Associate Professorship at the University of Queensland and has published three books and over 70 papers. Elizabeth is a Churchill Fellow, a member of Australian Institute of Aboriginal and Torres Strait Islander Studies (AIATSIS), and has been honoured with the International Prison and Correctional Association (ICPA) Excellence in Research Award for her pioneering work on the design of (non)-custodial environments for Indigenous peoples. She worked on numerous Indigenous projects, prepared submissions and acted as an expert witness for Government Inquiries, coronial inquests and Royal Commissions.

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Dr Albert L. Refiti is a researcher and Senior Lecturer in Pacific Architecture, Art and Space at Auckland University of Technology, New Zealand. Albert has worked in architectural practice in Auckland and London. His academic work focusses on Indigenous thought and methodologies, new ethnography and anthropology of Pacific material culture and contemporary architecture. His most recent work takes a critical look at architectural spaces that constructs communal memory in museums, diasporic communities, and neoliberal cultural institutions in the wider Pacific.

Daniel J. Glenn, AIA, AICAE is an award-winning architect specialising in culturally responsive architecture and planning for diverse cultures and Indigenous communities. He is the Principal of 7 Directions Architects/Planners, a Native-owned firm in Seattle, Washington. His work and philosophy reflect his Crow tribal heritage. He has been featured in the film, *Aboriginal Architecture: Living Architecture* (Bullfrog Films), and four of his projects are published in the book, *New Architecture on Indigenous Lands* (University of Minnesota Press 2013). He is a regularly invited speaker at national conferences, and he appeared in 2016 in *Native American Green: New Directions in Tribal Housing* in the Public Broadcasting Service series, *Natural Heroes*. He will be part of a team of North American Indigenous architects led by Douglas Cardinal representing Canada in the 2018 Venice Biennale with an entry entitled, *Unceded*.

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Acronyms

AAP	Australian Associated Press (Aust)
ABC	Australian Broadcasting Corporation (Aust)
ABI	Acquired brain injury
ABS	Australian Bureau of Statistics (Aust)
AERC	Aboriginal Environments Research Centre (The University of Queensland, Aust)
AHC	Aboriginal Housing Company (Aust)
AHP	Aboriginal Housing Panel (Aust)
AIA	American Institute of Architects (US)
AIA	Australian Institute of Architects (Aust)
AICAE	American Indian Council of Architects and Engineers (US)
AIHW	Australian Institute of Health and Welfare (Aust)
AIM	American Indian Movement (US)
ALRC	Australian Law Reform Commission (Aust)
ANU	Australian National University (Aust)
AOO	Algonquins of Ontario (Can)
APY	Anangu Pitjantjatjara Yankunytjatjara (Aust)
ARC	Australian Research Council (Aust)
ATSI	Aboriginal peoples and Torres Strait Islanders (Aust)
ATSIC	Aboriginal and Torres Strait Islander Commission (Aust)
ATSIHP	Aboriginal and Torres Strait Islander Housing Panel (Aust)
Black GST	Political Movement ending with acronym GST meaning to end ‘genocide’, assert ‘sovereignty’ and secure a ‘treaty’ (Aust)
CAAC	Central Australian Aboriginal Congress (Aust)
CAT	Centre for Appropriate Technology (Aust)
CCAB	Canadian Council for Aboriginal Business (Can)
CEFPI	Council of Educational Facility Planners International
CIP	Canadian Institute of Planners (Can)
COAG	Council of Australian Governments (Aust)
COST	European Cooperation in Science and Technology

CRC	Cooperative Research Centres (Aust)
CSIRO	Commonwealth Scientific and Industrial Research Organisation (Aust)
DoCoMoMo	(or Docomomo) International Committee for Documentation and Conservation of Buildings, Sites and Neighbourhoods of the Modern Movement
DPAC	Design Planning Assistance Center (US)
ECE	Early childhood education
ECU	Edith Cowan University (Aust)
EDRA	Environmental Design Research Association
FaHCSIA	Department of Families, Housing, Community Services and Indigenous Affairs (Aust)
FNMI	First Nations, Metis and Inuit (Can)
GAO	General Accounting Office (US)
HIS	Indian Health Services (US)
HUD	Department of Housing and Urban Development (US)
IADV	Indigenous Architecture and Design Victoria (Aust)
ICHO	Indigenous Community Housing Organisations (Aust)
IgCC	International Green Construction Code
IHA	Indian Housing Authority (US)
IHANT	Indigenous Housing Authority of the Northern Territory (Aust)
IHBG	Indian Housing Block Grant (US)
ILC	Indigenous Land Corporation (Aust)
INAC	Indian and Northern Affairs Canada (Canada)
LEED	Leadership in Energy and Environmental Design
LCA	Law Council of Australia (Aust)
LIHTC	Low-Income Housing Tax Credit (US)
LRT	Light Rail Transit
MQB	Musée du quai Branly, Paris
NAHASDA	Native American Housing Assistance and Self-Determination Act (US)
NAHS	National Aboriginal Health Strategy (Aust)
NAISA	Native American Indigenous Studies Association
NATIVE	Northeast Arizona Technical Institute for Vocational Education (US)
NATSISS	National Aboriginal and Torres Strait Islander Social Survey (Aust)
NCC	National Construction Code of Australia (Aus)
NDIS	National Disability Insurance Scheme (Aust)
NITV	National Indigenous Television (Aust)
NMA	National Museum of Australia
NMAI	National Museum of the American Indian
NMMFA	New Mexico Mortgage Finance Authority (US)
NPA	Northern Peninsula Area (Queensland, Aust)
NSW	New South Wales (Aust)
NT	Northern Territory (Aust)

NZIA	New Zealand Institute of Architects (NZ)
NZILA	New Zealand Institute of Landscape Architects (NZ)
OECD	Organisation for Economic Cooperation and Development
OLT	Commonwealth of Australia's Office of Learning and Teaching (Aust)
POE	Post-Occupancy Evaluation
PCC	Polynesian Cultural Center
PSL	Parallel Strand Lumber
QHTN	Queensland Heritage Trails Network (Aust)
QLD	Queensland (Aust)
QPWS	Queensland Parks and Wildlife Service (Aust)
RAIA	Royal Australian Institute of Architects (Aust)
RAIC	Royal Architectural Institute of Canada (Can)
SA	South Australia (Aust)
SAHANZ	Society of Architectural Historians Australia and New Zealand
STA	Sāmoan Tourism Association
SBS	Special Broadcasting Service (Aust)
SCinIC	Sustainable Construction in Indian Country Initiative (US)
SCRGSP	Steering Committee for the Review of Government Service Provision (Aust)
SEAFG	South East Aboriginal Focus Group (South Australia) (Aus)
SEED	Social Economic Environmental Design
SIHIP	Strategic Indigenous Housing and Infrastructure Program (Aust)
SIP	Structural Insulated Panel
SNCC	Sustainable Native Communities Collaborative (US)
SPL	Saskatoon Public Library (Can)
TAFE	Technical and Further Education (Aust)
TSRA	Torres Strait Regional Authority (Aust)
UIHS	United Indian Health Services (US)
UiT	The Arctic University of Norway
UN	United Nations
UNESCO	United Nations Educational, Scientific and Cultural Organization
USA	United States of America
VIC	Victoria (Aust)
VTOLJG	Victorian Traditional Owners Land Justice Group (Aust)
WA	Western Australia (Aust)
WTC	Welcome to Country (Aust)

Foreword

Indigenous means *of the land*. As Indigenous people, we have a symbiotic relationship with the land and with each other. Rather than separated from nature, or above nature, we are nature. The spirit of the land flows through all life, including ourselves, and we are governed by natural law.

I am Anishinaabe, and what I learned through my elders was how to regard each individual with respect and care. We extend that to all the herbs, medicines, plants, water, fish, birds and animals, all of which we consider as our relations. With this world view, we have a distinct approach to architecture and planning.

The architecture of the dominant culture reflects the hierarchal world view of power and control over human nature and nature itself. Since it is hierarchical, planning comes from the top-down, where the will of the dominant culture is an imposition on human nature and our natural environment.

The Indigenous planning process is from the bottom-up, where people and their needs are our primary focus. It is the user of the space and the vision of the people who will be served that, from which the architectural form is established. Each cell or space is interconnected to each other, and the study of these connections creates a matrix in which an organism begins to evolve. Placing that organism on the site, it is developed with respect not only to the internal forces of the program that are shaping it, but to the external forces as well, such as the topography, landscaping, sun angles and wind patterns.

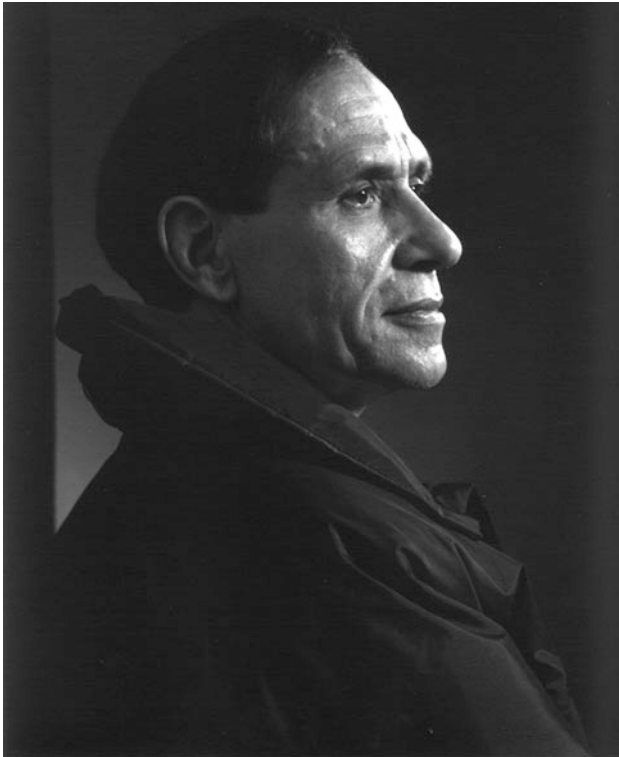
When the form naturally takes shape around the needs of all people and the environment, then when it is placed in its natural environment it extends that respect to all the life that surrounds it. If we draw on nature as our source of inspiration and entwine natural forms with our own human forms, then we arrive at works of art that elevate the spirit of all who enter the spaces we create.

We must achieve balance and harmony with each other as well as all life around us. We need beauty and harmony around us. As human beings, we all aspire to create or build environment with that in mind.

Ottawa, Ontario, Canada

Douglas Cardinal

Douglas Cardinal is a master builder, his life is dedicated to creating beautiful, thriving and harmoniously built environments. Born in 1934 in Calgary, Alberta, his architectural studies at The University of British Columbia took him to Austin, Texas, where he achieved his architectural degree and found a life experience in human rights initiatives. He then became a forerunner of philosophies of sustainability, green buildings and ecologically designed community planning. His architecture springs from his observation of Nature and its understanding that everything works seamlessly together. In recognition of such work, he has received many national and international awards including 20 Honorary Doctorates, Gold Medals of Architecture in Canada and Russia, and an award from United Nations Educational Scientific and Cultural Organization (UNESCO) for best sustainable village. He is also titled an Officer of the Order of Canada, one of the most prestigious awards given to a Canadian, and he was awarded the declaration of being ‘World Master of Contemporary Architecture’ by the International Association of Architects. He is one of the visionaries of a new world: a world where beauty, balance and harmony thrive and where client, architect and stakeholder build together with a common vision.



Douglas Cardinal (*Photograph Yousuf Karsh. Used with permission*)