

Dr. Patrick Daly

Earth Observatory of Singapore, Nanyang Technological University
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Date of Birth: January 13, 1975

Nationality: American and Irish (dual citizenship)

VITAE

My work investigates the long-term interactions between people and their environments. I have conducted extensive research in Europe, the Middle East and Southeast Asia focusing upon human responses to changing environmental conditions and natural hazards. I employ a combination of anthropological and environmental archaeological methods. I have conducted fieldwork in Finland, the United Kingdom, Jordan, Syria, Peru, Malaysia, Palestine, Indonesia, Philippines, Nepal, Cambodia and the Maldives, as well as having worked extensively in laboratory situations.

EDUCATION

2003 DPhil. Environmental Archaeology. University of Oxford, Institute of Archaeology

1997 BA (honors) Department of Anthropology with a Minor in Physical Geography,
State University of New York at Buffalo

EMPLOYMENT

Current Post

Senior Research Fellow: Earth Observatory of Singapore, Nanyang Technological University, Singapore 1 July 2015 - Present

Previous Posts

Senior Lecturer: University Scholars Program, National University of Singapore. (joint appointment with the Earth Observatory of Singapore) Dec. 2010 – 30 June 2015

Senior Research Fellow: Asia Research Institute, National University of Singapore. Dec. 2006 to November 2010

Post Doctoral Fellow: Asia Research Institute, National University of Singapore. December 2005 to November 2006

Post Doctoral Fellow: McDonald Institute for Archaeological Research, University of Cambridge - September 2004 to November 2005

Assistant Professor: Faculty of Arts, An-Najah National University, Nablus, Palestinian Territories - September 2003 to June 2004

PUBLICATIONS

Books, Edited Volumes, Special Journal Issues

- 2016 **DALY, P.** & Feener, R. M. (eds.) *Rebuilding Asia Following Natural Disasters: Approaches Reconstruction in the Asia-Pacific Region*. Cambridge University Press
- 2016 Feener, M., Fountain, P. McLaughlin, L. and, **DALY, P.** (eds.) *Salvage and Salvation: Religion and Disaster Relief in Asia*. *Asian Ethnology*
- 2012 Feener, M., **DALY, P.**, and Reid, A. (eds.) *Memetakan Masa Lalu Aceh*. Jakarta: KITLV Press
- 2012 **DALY, P.** Feener, M. and Reid, A. (eds.) *Bangkit Dari Debu: Multierspektif tentang Aceh Pasca-Tsunami dan Pasca-Konflik*. Jakarta: KITLV Press
- 2012 **DALY, P.** Feener, M. and Reid, A. (eds.) *From the Ground Up: Perspectives on Post-Tsunami and Post-Conflict Aceh*, Singapore: ISEAS Press
- 2011 **DALY, P.** and Winter, T. (eds.) *The Routledge Handbook of Heritage in Asia*, London: Routledge
- 2011 Feener, M, **DALY, P.** and Reid T. (eds.) *Mapping the Acehnese Past*. Leiden: KITLV Press
- 2005 Evans, T. and **DALY, P.** (eds.) *Digital Archaeology*. London: Routledge Press
- 2005 Gosden, C., Lock, G. and **DALY, P.** *An Iron Age Hillfort and its Landscape*. Oxford: Oxford University Committee for Archaeology Monograph

Journal Articles and Book Chapters

- In Review **DALY, P.**, Ninglekhu, S., Hollenback. P., McCaughey, J. & Lallemand, D. Balancing heritage conservation with vulnerability reduction and resident empowerment in post-earthquake Nepal. *Disasters*
- In Review Biswas, S. & **DALY, P.** 'Cyclone Not Above Politics': East Pakistan, Disaster politics and the 1970 Bhola Cyclone. *Modern Asian Studies*
- In Review **DALY, P.**, Feener, R. M., Lum, L. Edwards McKinnon, E., Ardiansyah, Nizamuddin, Ismail, N., Tai, Y. S. & Sieh, K. Islamization and the formation of vernacular burial monuments in 15th-century northern Sumatra. *Indonesia and the Malay World*
- In Review McCaughey, J., Mundir, I., Safrina, L., Rosemary, R., Mahdi, S., **DALY, P.** & Patt, A. Human survival circuits and disasters: thinking, feeling, and acting in moments of imminent threat. *Environment and Behavior*.
- Forthcoming. Ninglekhu, S., **DALY, P.**, & Hollenbach, P., Balancing housing rights, participatory involvement and preserving heritage and cultural identity in post-earthquake Nepal. In M. Hutt (ed.). *Epicenter to Aftermath*. Delhi: Cambridge University Press.
- 2020 **DALY, P.** P, Mahdi, S., McCaughey, J., Mundzir, I., Halim, A., Nizamuddin, Ardiansyah, & Srimulyani, E. Rethinking relief, reconstruction and development: long-term Effectiveness of post-disaster livelihood aid. *International Journal of Disaster Risk Reduction* 49, 101650.
- 2020 **DALY, P.** P, Mahdi, S., McCaughey, J., Mundzir, I., Halim, A., Nizamuddin, Ardiansyah, Srimulyani, E. & Syafullah. Restoring Livelihoods after disasters: Practical assessment of the effectiveness and sustainability of post-disaster household livelihood assistance after the 2004 tsunami in Aceh, Indonesia. EOS Policy Paper, Singapore: Earth Observatory of Singapore

- 2020 **DALY, P.** Edwards McKinnon, E., Feener, R. M., Tai, Y. S., Ardiansyah, Parnell, A., Nizamuddin, Ismail, N., Sieh, K. & Majewski, J. The historic trading port of Lamri on the North Sumatran Coast. *Bulletin de l'Ecole francaise d'Extreme-Orient*.
- 2020 Tai, Y. S., **DALY, P.**, Edwards McKinnons, E., Parnell, A., Feener, R. M., Majewski, J, Ismail, N., & Sieh, K. The impacts of Ming and Qing dynasty maritime bans on trade ceramics recovered from coastal settlements in northern Sumatra, Indonesia. *Archaeological Research in Asia*. 21, 100174
- 2019 **DALY, P.**, Sieh, K., Tai, Y. S., McKinnon, E. E., Ardiansyah, Parnell, A., Feener, R. M., Ismail, N. & Nizamuddin. Archaeological evidence that a tsunami devastated 15th century settlements in northern Sumatra and redirected history. *Proceedings of the National Academy of Science*, 116(24): 11679-11686.
- 2018 **DALY, P.** An applied anthropological perspective on localizing post-disaster aid: lessons from post-tsunami Aceh, Indonesia. In S. Reddy and H. Naraindas (eds.) *The Asian Tsunami and Post-disaster Aid*. London: Springer.
- 2018 **DALY, P.**, Duyne Barenstein, J., Hollenbach, P, & Ninglekhu, S. Post-disaster housing reconstruction in urban areas in Nepal: aid governance and local rebuilding initiatives. *IIED Working Paper*.
- 2018 McCaughey, J., **DALY, P.**, Mundzir, I., Patt, A. Socio-economic segregation following a post-disaster policy to rebuild near the coast. *Nature Sustainability* 1: 38-43.
- 2017 **DALY, P.**, Ninglekhu, S., Hollenbach, P., Duyne Barenstein, J., and Nguyen, D. Situating local stakeholders within national disaster governance structures: rebuilding urban neighborhoods following the 2015 Nepal earthquake. *Environment and Urbanization*, 29(2): 403 – 424.
- 2017 Rubin, C., Horton, B., Sieh, K., Pilarczyk, J., **DALY, P.**, Ismail, N., and Parnell, A. Highly variable recurrence of tsunamis in the 7,400 years prior to the 2004 Indian Ocean tsunami. *Nature Communications*, 16019 doi:10.1038/ncomms16019.
- 2017 McCaughey, J., Mundzir, I., **DALY, P.**, and Patt, A. Distrust of tsunami vertical evacuation structures: extending protection motivation theory to examine choices among protective actions under social influence. *International Journal of Disaster Risk Reduction*. 24: 462-473.
- 2017 **DALY, P.** Halim, A., Nizamuddin, Ardiansyah, Hundlani, D., Ho, E., and Mahdi, S. Rehabilitating coastal agriculture and aquaculture after inundation events: Spatial analysis of livelihood recovery in post-tsunami Aceh, Indonesia. *Ocean & Coastal Management* 142, 218-232.
- 2016 **DALY, P.** Cycles of destruction and reconstruction: responding to disasters in the Asia-Pacific region. In Daly, P. and Feener, R. M. (eds.). *Rebuilding Asia: Approaches to Post-Disaster Reconstruction in the Asia-Pacific Region*. Cambridge: Cambridge University Press. pp. 1-56.
- 2016 **DALY, P.**, Feener, R. M., Jauhola, M., and Thorburn, C. Blueprints for change in post-tsunami Aceh, Indonesia. In Daly, P. and Feener, R. M. (eds.). *Rebuilding Asia: Approaches to Post-Disaster Reconstruction in the Asia-Pacific Region*. Cambridge: Cambridge University Press. pp. 181-209.
- 2016 **DALY, P.** and Chan, B. 'Putting broken pieces back together': reconciliation, justice and heritage in post-conflict situations. In W. Logan, M. Craith, and U. Kockel (eds.) *The Blackwell Companion to New Heritage Studies*. Oxford: Blackwell Press. pp. 491-506.
- 2016 Delias, D. and **DALY, P.** The challenges of disaster risk reduction in rapidly expanding urban environments: Baguio City, Philippines since the 1990 Luzon Earthquake. In DALY, P. and Feener, R. M. (eds.). *Rebuilding Asia: Approaches to Post-Disaster Reconstruction in the Asia-Pacific Region*. Cambridge: Cambridge University Press. pp. 57-80.

- 2016 Feener, R. M. and **DALY, P.** Post-disaster reconstruction in Asia: New actors and approaches. In DALY, P. and Feener, R. M. (eds.). *Rebuilding Asia: Approaches to Post-Disaster Reconstruction in the Asia-Pacific Region*. Cambridge: Cambridge University Press. pp. 393-405.
- 2016 Feener, M. and **DALY, P.** Religion and reconstruction in the wake of disaster. *Asian Ethnology*. Vol. 75(1), 191-202.
- 2015 Sieh, K. **DALY, P.**, McKinnon, E., Pilarczyk, J., Chiang, H. W., Horton, B., Rubin, C., Shen, C. C., Ismail, N., and Vane, C. Penultimate predecessors of the 2004 Indian Ocean tsunami in Aceh, Sumatra: stratigraphic, archaeological and historical evidence. *Journal of Geophysical Research Solid Earth*, 120: 1 - 18
- 2015 **DALY, P.** Embedded wisdom or rooted problems? Aid workers' perspectives on local social and political infrastructure in post-tsunami Aceh. *Disasters* 39 (2): 232-257
- 2013 **DALY, P.** and Hor, A. Similar events, different disasters: a comparative assessment of the aftermath of the 2004 Indian Ocean and the 2011 Japan tsunamis. *Asian Journal of Environment and Disaster Management*. 5(1): 1 -21
- 2013 Barker, G., **DALY, P.**, Cole, F., Lloyd-Smith, L., Piper, P., Rabett, R. and Szabo, K. Archaeological Investigations in the Niah Caves, 1954 – 2003. In Barker, G. (ed.) *Rainforest Foraging and Farming in Island Southeast Asia: The Archaeology of the Niah Caves, Sarawak*. Cambridge: McDonald Institute for Archaeological Research Monograph Series.
- 2013 Gilbertson, D., McLaren, S., Stephens, M., Hunt, C., Rose, J., Dykes, A., Grattan, J., Bird, M., Lewis, H., Kealhofer, L., Banda, R., Badang, D., **DALY, P.**, Rushworth, G., Thompson, G., Piper, P., and Rabett, R. The Cave Entrance Sequences and Environmental Change. In Barker, G. (ed.) *Rainforest Foraging and Farming in Island Southeast Asia: The Archaeology of the Niah Caves, Sarawak*. Cambridge: McDonald Institute for Archaeological Research Monograph Series.
- 2012 **DALY, P.** Pendahuluan: Menguak Tantangan Aceh Pasca-2004. In Daly, P. Feener, M. and Reid, A. *Bangkit Dari Debu: Multierspektif tentang Aceh Pasca-Tsunami dan Pasca-Konflik*. Jakarta: KITLV Press
- 2012 **DALY, P.** and Rahmayati, Y. Pusaka Budaya dan Pemulihan Komunitas di Aceh Pasca-Tsunami. In Daly, P. Feener, M. and Reid, A. *Bangkit Dari Debu: Multierspektif tentang Aceh Pasca-Tsunami dan Pasca-Konflik*. Jakarta: KITLV Press
- 2012 **DALY, P.** Introduction: Unpacking the Challenges of Post-2004 Aceh. In P. Daly, R. Feener, and A. Reid (eds.) *From the Ground Up: Perspectives on Post-Tsunami and Post-Conflict Aceh*, Singapore: ISEAS Press
- 2012 **DALY, P.** and Rahmayati, Y. Cultural Heritage and Community Recovery in post-tsunami Aceh. In P. Daly, R. Feener, and A. Reid (eds.) *From the Ground Up: Perspectives on Post-Tsunami and Post-Conflict Aceh*, Singapore: ISEAS Press
- 2011 **DALY, P.** Fighting Modernity: Safeguarding and the Transmission of Intangible Cultural Heritage in Asia. In P. Daly & T. Winter (eds.) *The Routledge Handbook of Heritage in Asia*, London: Routledge
- 2011 **DALY, P.** and Brassard, C. Aid Accountability and Participatory Approaches in Post-Disaster Housing Reconstruction. *Asian Journal of Social Science* 39: 508 - 533
- 2011 Winter, T. and **DALY, P.** Heritage in Asia: Converging Forces, Conflicting Values. In P. Daly & T. Winter (eds.) *The Routledge Handbook of Heritage in Asia*, London: Routledge
- 2010 **DALY, P.** Placing Excavations in a Digital Landscape: Towards Holistic Regional Analysis. In R. Salisbury (ed.) *Reimagining Regional Analyses* Cambridge: Cambridge Scholars Press

- 2008 Newson, P., Barker, G., **DALY**, P., Mattingly, D. and Gilbertson, D. The Wadi Faynan field systems. In: G. Barker, D. Gilbertson, D. Mattingley, (eds.), *Archaeology & Desertification: The Wadi Faynan Landscape Survey, southern Jordan*, CBRL & Oxbow Books, Oxford
- 2008 Palmer, C. Smith, H. and **DALY**, P. Ethnoarchaeology In G. Barker, D. Gilbertson, D. Mattingley, (eds.), *Archaeology & Desertification: The Wadi Faynan Landscape Survey, southern Jordan* CBRL & Oxbow Books, Oxford
- 2008 Newson, P., Mattingly, D., **DALY**, P., Tomber, R., el-Rishi, H., Gilbertson, D., Grattan, J., Hunt, C., McLaren, S., and Pyatt, B. The Islamic and Ottoman Periods. In G. Barker, D. Gilbertson, D. Mattingley, eds. *Archaeology & Desertification: The Wadi Faynan Landscape Survey, southern Jordan*, CBRL & Oxbow Books, Oxford
- 2007 Barker, G., Barton, H., Bird, M., **DALY**, P., Datan, I., Dykes, A., Farr, L., Gilbertson, D., Harrison, B., Hunt, C., Higham, T., Kealhofer, L., Krigbaum, J., Lewis, H., McLaren, S., Paz, V., Pike, A., Piper, P., Pyatt, B., Rabett, R., Reynolds, T., Rose, J., Rushworth, G., Stephens, M., Stringer, C., Thompson, J., and Turney, C. The ‘human revolution’ in lowland tropical Southeast Asia: the antiquity and behavior of anatomically modern humans at Niah Cave (Sarawak, Borneo). *Journal of Human Evolution* 52: 243 – 261
- 2006 Barker, G., **DALY**, P., and Newson, P. Impacts of imperialism: Nabataean, Roman and Byzantine landscape in the Wadi Faynan, southern Jordan. In E. C. Robertson, J. D. Seibert, D. C. Fernandez, and M. U. Zender (eds.) *Space and Spatial Analysis in Archaeology*. Albuquerque, University of New Mexico Press, and Calgary, University of Calgary Press.
- 2005 **DALY**, P. and Evans, T. Archaeological theory for a digital past: an Introduction. In T. Evans and P. Daly (eds.) *Digital Archaeology*. London: Routledge Press
- 2005 Lock, G., Gosden, C., **DALY**, P. The forth season of excavations at Manor Farm, Marcham/Frilford, Oxfordshire. *South Midlands Archaeology*
- 2005 Palmer, C. and **DALY**, P. Jouma’s House: Bedouin and digital archaeology. In T. Evans and P. Daly (eds.) *Digital Archaeology*. London: Routledge Press
- 2004 **DALY**, P. and Lock, G. Time, Space, and Landscape Archaeology: Constructing Connections in the 1st Millennium BC. In Goodchild, M. and Janelle, D. (eds.) *Spatially Integrated Social Science: Examples in Best Practice* Oxford: Oxford University Press
- 2004 Barker, G., Barton, H., Bird, M., Cole, F., **DALY**, P., Dykes, A., Farr, L., Gilbertson, D., Higham, T., Hunt, C., Knight, S., Kurui, E., Lewis, H., Lloyd-Smith, L., Manser, J., McLaren, S., Menotti, F., Piper, P., Pyatt, B., Rabett, R., Reynolds, T., Shimmin, J., Thompson, G., and Trickett, M. The Niah Cave Project: The Forth (2003) Season of Fieldwork. *Sarawak Museum Journal*
- 2004 Lock, G., Gosden, C. **DALY**, P. and Griffiths, D. The third season of excavations at Manor Farm, Marcham/Frilford, Oxfordshire. *South Midlands Archaeology*
- 2003 Barker, G., Barton, H., Bird, M., Cole, F., **DALY**, P., The Earl of Cranbrook, Gilbertson, D., Hunt, C., Krigbaum, J., Lewis, H., Lloyd-Smith, L., Manser, J., Menotti, F., Paz, V., Piper, P., Pyatt, B., Rabett, R., Reynolds, T., Stephens, M., Trickett, M, and Whittaker, P. The Niah Cave Project: The Third (2002) Season of Fieldwork. *Sarawak Museum Journal* 57 (NS 78): 88-177
- 2003 Barker, G., Barton, H., Beavitt, P., Bird, M., **DALY**, P., Doherty, C., Gilbertson, D., Hunt, C., Krigbaum, J., Lewis, H., Manser, J., McLaren, S., Paz, V., Piper, P., Pyatt, B., Rabett, R., Reynolds, T., Rose, J., Rushworth, G., and Stephens, M. Prehistoric foragers and farmers in southeast Asia: renewed investigations at Niah Cave, Sarawak. *Proceedings of the Prehistoric Society* 68: 147 - 164
- 2003 Lock, G., Gosden, C. Griffiths, D. and **DALY**, P. Hillforts of the Ridgeway Project: excavations at Marcham/Frilford 2002. *South Midlands Archaeology*, 33, pp.84-91.

- 2002 Barker, G., Badang, D., Barton, H., Beavitt, P., Bird, M., **DALY**, P., Doherty, C., Gilbertson, D., Hunt, C., Manser, J., McLaren, S., Paz, V., Pyatt, B., Reynolds, T., Rose, J., Rushworth, G., and Stephens, M. The Niah Cave Project: The Second (2001) Season of Fieldwork. *Sarawak Museum Journal* 56 (NS 77): 37 - 119
- 2002 Lock, G., Gosden, C. Griffiths, D., **DALY**, P., Trifkovic, V. and Marston, T. Hillforts of the Ridgeway Project: excavations at Marcham/Frilford 2001. *South Midlands Archaeology*, 32, pp.69-83.
- 2000 Tschan, A and **DALY**, P. Is there such a thing as ‘Computer Archaeology’? In Lock, G. (ed.) *On the Theory and Practice of Archaeological Computing*. Oxford Committee for Archaeology Monograph
- 2000 Barker, G. W., R. Adams, O. H. Creighton, P. **DALY**, D. D. Gilbertson, C. O. Hunt, D. J. Mattingly, S. J. McLaren, P. Newson, C. Palmer, F. B. Pyatt, T. E. G. Reynolds, H. Smith, R. Tomber, and A. J. Truscott. Environment and land use in the Wadi Faynan, southern Jordan: the fourth season of geoarchaeology and landscape archaeology. *Levant*
- 2000 **DALY**, P. and Frachetti, M. The GIS of Early Åland: Spatial Analysis Applying the Arc/Info Method in an Archipelago in South Western Finland. In Lockyear, C. and Birliba, V. (eds.) *Proceedings of the 24th CAA conference held at the Institute of Archaeology and the Al.I.Cuza University, Iasi, Romania 25-27th March 1996* BAR International.
- 1999 **DALY**, P. and Lock, G. Timing is Everything: Commentary on Managing Temporal Variables in Geographic Information Systems. In J. Barcelo (ed.) *Computer Applications in archaeology Conference Proceedings 1998, Barcelona* BAR International: London
- 1999 Lock, G. and **DALY**, P. Looking at Change, Continuity, and Time in a GIS: An Example from the Sangro Valley, Italy. In J. Barcelo (ed.) *Computer Applications in archaeology Conference Proceedings 1998, Barcelona* BAR International: London
- 1999 Zubrow, E. and **DALY**, P. The Origins of Symbolic Behavior: A Spatial Perspective. In C. Renfrew and C. Scarre (eds.) *Cognition and Material Culture*. McDonald Institute Monograph
- 1999 Zubrow, E., Nunez, M., **DALY**, P., Frachetti, M., Trella, P., Chestnut, D., Mitchell, P., Niskanen, K., Rajala, A., & Thurston, E. Archaeological survey of the Finnish-Russian Border and the Oulanka River Valley. *Oulanka Reports* 20
- 1997 **DALY**, P. and Zubrow, E. Evolution and Spatial Symbolic Behavior in M. Shafto & P. Langley (eds.) *Proceedings of the Nineteenth Annual Conference of the Cognitive Science Society*, Lawrence Erlbaum Associates
- 1997 Nunez, M., Okkonen, J., **DALY**, P. & Frachetti, M. GIS where elevation is a function of time. In I. Johnson (ed.) *UISPP World Congress, Forli, Italy Proceedings 1996* (CD ROM)

CONFERENCES AND LECTURES

Conferences and Workshops Organized

- 2013 Panel moderator
Religion and the Politics of Development: Priests, Potentates and “Progress”
28 – 29 August
Asia Research Institute, National University of Singapore
- 2012 Co-organizer
Salvage and Salvation: Religion, NGOs, and Post-disaster Reconstruction
November 2012

Asia Research Institute, National University of Singapore

- 2012 Panel organizer/moderator
2nd Annual Asia Public Policy Forum “Disaster Management in Asia”
Kennedy School of Government, Harvard University and Lee Kwan Yew School of Public Policy,
National University of Singapore
May 13 – 15 2012
- 2009 Co-Organizer with Dr. Tim Winter, University of Sidney, Associate Professor Johannes Widodo,
NUS
Back to the Future: Heritage and Sustainability
March 13 – 15, 2009
Tun Tan Cheng Lock Research Centre for Architecture and Urban Heritage, Melaka, Malaysia
- 2009 Co-Organizer International Conference with Dr. Tim Winter, University of Sidney,
Converging Forces, Conflicting Values: Rethinking Heritage in Asia
January 8 – 9, 2009
Asia Research Institute, National University of Singapore
- 2009 Co-Organizer with Dr. Michelle Miller, NUS
International Symposium on Ethnic Minorities in Asia: Subjects or Citizens?
June 25 – 26, 2009
Asia Research Institute, National University of Singapore
- 2007 Co-Organizer with Professor Anthony Reid & Professor Michael Feener, NUS
First International Conference for Aceh and Indian Ocean Studies.
24th – 27th of February, Banda Aceh, Indonesia
- 2000 Co-organizer Session **Archaeological Theory for a Digital Past**
Theoretical Archaeological Group,
Oxford Dec. 18-20th, 2000

Conference Papers/Lectures Presented

- 2019 Ninglekhu, S., DALY, P., & Hollenbach, P. Reclaiming Newar urbanism: heritage and its discontents.
Epicentre to Aftermath: Political, Social and Cultural Impacts of Earthquakes in South Asia.
SOAS
January 10 – 11
London, United Kingdom
- 2018 McCaughey, J., Feener, R. M., Mundzir, I., Hayatullah, H., **DALY, P.** Finding the
right metrics of vulnerability: correct and incorrect simplifications of behavioral
factors.
EGU General Assembly
April 2018
Vienna, Austria
- 2017 **DALY, P.**, Sieh, K., Tai, Y. S., McKinnon, E. E., Feener, R. M. & Ismail, N. Early-
Ming era tsunami destruction along the Northern coast of Aceh, Indonesia: New
evidence from archaeology.
2017 AGU Fall Meeting
December 2017
New Orleans, USA.
- 2017 **DALY, P.**, Sieh, K., Tai, Y. S., McKinnon, E. E., Feener, R. M. & Ismail, N.
Interaction of Geohazard and Settlements through the past millennium, Banda Aceh,
Indonesia.

2017 AGU Fall Meeting
December 2017
New Orleans, USA.

- 2017 McKinnon, E. E., Tai, Y. S., **DALY, P.**, and Feener, R. M. *Confirmation of the discovery of ancient Lamri in a coastal village in Aceh Besar, Indonesia: Preliminary analysis of ceramics and other data.*
International Conference of the European Association of Southeast Asian Archaeologists
Poznan, Poland
3 – 7 July 2017
- 2017 Tai, Y. S., McKinnon, E. E., **DALY, P.**, and Feener, R. M. *Ceramics found in Aceh.*
International Conference of the European Association of Southeast Asian Archaeologists
Poznan, Poland
3 – 7 July 2017
- 2017 McCaughey, J, Mundzir, I, Patt, A, Rosemary, R, Safrina, L, Mahdi, S, and **DALY, P.** *Social acceptance of unnecessary evacuation.*
European Geosciences Union General Assembly
Vienna, Austria
23 – 28 April 2017
- 2017 Tai, Y. S., McKinnon, E., & **DALY, P.** *Zhangzhou ceramics found in Aceh, Indonesia.*
Maritime Silk Road and Chinese Historical Sites: International Academic Seminar of Dong Xi Kiln Sites
Nanjing County, Zhangzhou City, China
17 – 20 March 2017
- 2016 **DALY, P.**, Hollenbach, P., Ninglekhu, S., and Duyne Barenstein, J. *Social Justice, Governance and Aid: The contested reconstruction of urban settlements in post-2015 earthquake Nepal*
Disaster Justice in Anthropocene Asia and the Pacific
Asia Research Institute, National University of Singapore
17 – 18 November 2016
- 2016 Duyne Barenstein, J, Hollenbach, P, **DALY, P.** and Ninglekhu, S. *Inclusive Urban Reconstruction in Nepal Through Community Based Reconstruction Committees Pathways to Transformation – Research Fair on the Agenda 2030 – Building Bridges Between Research, Policy, and Practice*
Zurich, Switzerland
9 November 2016
- 2016 McCaughey, J, **DALY, P.**, Mundzir, I, Mahdi, S, and Patt, A. *Rebuilt risk: involuntary return, voluntary migration, and socioeconomic segregation in post-tsunami Aceh.*
Global Risk Forum International Disaster and Risk Conference
Davos, Switzerland
28 August - 1 September 2016
- 2016 McCaughey, J, Mundzir, I, Patt, A, Rosemary, R, Safrina, L, Mahdi, S, and **DALY, P.** *Social acceptance of unnecessary evacuation.*
Global Risk Forum International Disaster and Risk Conference
Davos, Switzerland
28 August - 1 September 2016
- 2016 McCaughey, J, Mundzir, I, **DALY, P.**, Mahdi, S, and Patt, A. *Distrust of tsunami Vertical evacuation buildings.*

Global Risk Forum International Disaster and Risk Conference
Davos, Switzerland
28 August - 1 September 2016

- 2016 McCaughey, J, **DALY, P**, Mundzir, I, Mahdi, S, and Patt, A. *Rebuilt risk: involuntary return, voluntary migration, and socioeconomic segregation in post-tsunami Aceh*. International Geographical Congress
Beijing, China
21-25 August 2016
- 2016 McCaughey, J, **DALY, P**, Mundzir, I, Mahdi, S, and Patt, A. Rebuilt risk: involuntary return, voluntary migration, and socioeconomic segregation in post-tsunami Aceh. European Geosciences Union General Assembly
Vienna, Austria
17-22 April 2016
- 2015 **DALY, P**. Using archaeology, history and geology to study the occurrence and impact of tsunami in the eastern Indian Ocean: a case from Aceh, Indonesia.
Invited Lecture
Texas A & M University at Qatar
21 October 2015
- 2015 **DALY, P**. Is it possible to ‘build back better’ in post-disaster situations? Sustainability, capacity and change in Aceh, Indonesia ten years after the 2004 Indian Ocean tsunami.
Invited Lecture
Department of Environmental Systems Science, ETH Zurich
16 October 2015
- 2015 **DALY, P**. The Aftermath of Aid Project: Assessing Safety and Sustainability in Aceh, Indonesia a decade after the 2004 tsunami.
Invited Keynote Lecture
The 5th Annual International Conference Syiah Kuala University
9 September 2015
- 2015 **DALY, P**. The Aftermath of Aid Project: Assessing Safety and Sustainability in Aceh, Indonesia a decade after the 2004 tsunami.
Dept. of Engineering, University of Auckland
25 February 2015
- 2015 **DALY, P**. Humanitarian emergencies as ‘opportunities for change? Life in Aceh, Indonesia ten years after the 2004 Indian Ocean Tsunami.
Dept. of Development Studies, University of Auckland
26 February 2015
- 2014 McCaughey, J., Dewi, P., Mundzir, I., Rosemary, R., Safrina, L., **DALY, P.**, and Patt, A. *The Science between tsunami science and evacuation decisions*. American Geophysical Union Fall Meeting. San Francisco, USA.
December 2014
- 2014 Hilmasari, L. & **DALY, P**. *Modifications and Alterations to post-disaster housing in Banda Aceh, Indonesia*. International Center for Aceh and Indonesia Ocean Studies Conference
November 2014
- 2014 Muhammad, S., Mahdi, S. and **DALY, P**. *The Effectiveness and Sustainability of Livelihood Asset Replacement in Post-Tsunami Banda Aceh*. International Center for Aceh and Indonesia Ocean Studies Conference
November 2014

- 2014 Hill, E., Qiu, Q., Feng, L., Meltzner, A. **DALY**, P., McCaughey, J., Briggs, R., Barbot, S., Lubis, A., Banerjee, P., Natawidjaja, D., Sieh, K. *Tectonic sea-level change in South East Asia: Geodetic models, coastal changes, and human responses*. UNAVCO Science Workshop, Broomfield, Colorado
4 – 6 March 2014
- 2013 Rubin, C., Horton, B., Sieh, K. Pilarczyk, J., Hawkes, A., **DALY**, P., Kelsey, H., McKinnon, E., Ismail, N., Daryono, M. *Recurrence of Great Earthquakes and Tsunamis, Aceh Province, Sumatra*. American Geophysical Union Fall Meeting. San Francisco, USA.
December 2013
- 2013 Sieh, K., **DALY**, P., McKinnon, E., Chiang, H., Pilarczyk, J., Daryono, M., Horton, B., Shen, C., Rubin, C., Ismail, N., & Kelsey, H. *Twin Predecessors of the 2004 Indian Ocean Tsunami: Implications for Rebuilt Coastal Communities*. American Geophysical Union Fall Meeting. San Francisco, USA.
December 2013
- 2013 Pilarczyk, J., Rubin, C., Sieh, K., Horton, B., **DALY**, P., & Ismail, N. *Predecessors of the 2004 Indian Ocean Tsunami in a Coastal Cave in Aceh Province, Sumatra*. American Geophysical Union Fall Meeting. San Francisco, USA.
December 2013
- 2013 Hill, E., Qiu, Q., Feng, L., Lubis, A., Meltzner, A., **DALY**, P., Tsang, L., McCaughey, J., Banerjee, P., Rubin, C., & Sieh, K. *The Dynamic Nature of Relative Sea Level in Southeast Asia: Tectonic Effects and Human Impacts*. American Geophysical Union Fall Meeting. San Francisco, USA.
December 2013
- 2013 **DALY**, P. *Situating Acehnese NGO's and Civil Society in the Aftermath of the post-Tsunami Reconstruction*.
8th International Convention of Asian Scholars
Macau 24 – 27 June
- 2013 **DALY**, P. *Changing Approaches to Post-disaster Reconstruction in Asia Since the Second World War*.
A Global History of Modern Humanitarian Action, East and Southeast Asia Regional Conference. Humanitarian Policy Group
Singapore 29 – 30 January
- 2012 **DALY**, P. *Recovery and Reconstruction in Post-Tsunami Aceh*.
Invited Lecture – Earth Observatory of Singapore
Nanyang Technical University, Singapore
10 February 2012
- 2011 Kelsey, H., Horton, B., Rubin, C. **DALY**, P., Grand Pre, C., Daryono, M., and Ismail, N. *Great Earthquakes and Tsunamis of the Northwestern Aceh Coast, Sumatra*. American Geophysical Union Fall Meeting. San Francisco, USA.
5 – 9 December 2011
- 2011 **DALY**, P. and Hor, A. *Similar Events, Different Disasters: The relevance of the post-2004 tsunami reconstruction for Japan*. Annual International Workshop and on Sumatra Tsunami & South China Sea tsunami Workshop (SCSTW-4). Banda Aceh, Indonesia
22 – 23 November 2011
- 2011 **DALY**, P. *Cultural Heritage in the Aftermath of Disaster: Lessons from post-tsunami Aceh, Indonesia*. Cultural Heritage Preservation in Crisis Areas Conference. The American Academy in Rome, Italy.

4 – 5 November

- 2011 **DALY, P.** Are Engineers Necessary in Humanitarian Situations? Invited speaker. Humanitarian Engineering Seminar, Institute of Engineers Singapore. National Library, Singapore.
28 July 2011
- 2011 **DALY, P.** *Relevance of the 2004 Indian Ocean Tsunami for Japan: Initial Observations*
Presented at Lee Kuan Yew School of Public Policy, National University of Singapore
24 May 2011
- 2010 **DALY, P.** *Cultural Heritage and Post-Disaster Recovery*
Department of Anthropology, Washington University of St. Louis.
September 21, 2010
- 2010 **DALY, P.** and Brassard, C. *Aid Effectiveness and Beneficiary involvement in post-tsunami Aceh.*
Presented at **9th ASEAN Inter-University Seminar on Social Development**
May 25 – 27, Banda Aceh, Indonesia
- 2009 **DALY, P.** Culture, *Recovery and Reconstruction in Post-Tsunami Aceh*
Presented at **Converging Forces, Conflicting Values: Rethinking Heritage in Asia**
January 8 – 9, 2009
Asia Research Institute, National University of Singapore
- 2008 **DALY, P.** & Rahmayati, Y. *The ‘Cultural Past’ in a post-disaster environment: ‘Re-building’ post-tsunami Aceh*
Presented at the international conference **Re-Examining Disaster, Recovery and Reconstruction: Social Science Perspectives on the Tsunami.**
14th & 15th January, Jawaharlal Nehru University, New Dehli, India
- 2007 **DALY, P.** *Cultural Heritage in Post-Disaster Aceh*
Presented at a seminar: **Social Reconstruction in Aceh: Three Perspectives.**
October 30th 2007
Asia Research Institute, National University of Singapore.
- 2006 **DALY, P.** *Paradise When? Suicide Bombers and Paths of Resistance in the Palestinian Territories –*
Invited Lecture, Cathay Picture House, Singapore May 10th
- 2005 **DALY, P.** *50 years of Archaeological field work at the Niah caves: unlocking the Harrison Archive.*
Invited Lecture: Heritage Talk, Sarawak Museum, Malaysia
- 2005 **DALY, P.** *Recent Archaeological Investigations at Niah: Integrating Past and Present research.*
Seminar - McDonald Institute for Archaeological Research, University of Cambridge.
- 2005 **DALY, P.** and Cole, F. *Preliminary results from the analysis of the Niah Earthenware ceramics.*
Working paper - Niah Cave Project Symposium
University of Cambridge
- 2004 **DALY, P.** *Assessing the Impact of Israeli ‘Security’ Measures upon higher education in the occupied Palestinian Territories.*
Faculty of Arts and Science, An-Najah National University, Palestine.
- 2001 **DALY, P.** *Layers as Practice: Socially Oriented Deposition in Later Prehistoric Oxfordshire.*
Layers, Surfaces, and Interfaces: Apotropism and Memory as Material Practice. McDonald Institute of Archaeological Research, Cambridge November 4th)
- 1999 Tschan, A. & **DALY, P.** *Is there such a thing as ‘Computer Archaeology’?*
World Archaeological Congress
4 January 1999, Cape Town, South Africa.

- 1998 **DALY, P.**, Gosden, C. & Lock, G. *Time and the Ridgeway*. Iron Age Seminar, November 1998, Sheffield, England
- 1998 **DALY, P.**, & Lock, G. *Time and Geographic Information Systems: Managing Temporal Variables in Spatial Environments*. Computer Applications in Archaeology, March 1998 Barcelona, Spain
- 1998 Lock, G. & **DALY, P.** *Looking at Change, Continuity, and Time In a GIS: An Example from the Sangro Valley, Italy*. Computer Applications in Archaeology, March 1998 Barcelona, Spain
- 1998 Zubrow, E., Nunez, M., Frachetti, M., & **DALY, P.** *The Finnish-Russian Border Archaeological Survey Project*. Poster presented at the Nordic Archaeology Conference, August 1998, Umeå, Sweden
- 1997 Mitchell, P., **DALY, P.**, & Frachetti, M. *Modeling prehistoric settlement in an area of isostatic upheaval using ARC/INFO*. UCGIS Annual Assembly and Summer Retreat August 1997, Bar Harbor, Maine
- 1996 Nunez, M., Okkonen, J., Frachetti, M. & **DALY, P.** *GIS in Coastal Finland: Where altitude is a function of time*. International Union of Protohistoric and Prehistoric Sciences, August 1996, Forli, Italy
- 1996 **DALY, P.** & Frachetti, M. *GIS research in Northern Ostrobothnia*. Tutkijatapaaminen GIS – Analysis and Databases, April 1996, Turku, Finland
- 1996 **DALY, P.** & Frachetti, M. *The GIS of Early Åland: Spatial Analysis Applying the Arc/Info Method in an Archipelago in South Western Finland*. March 1996 Iasi, Romania

GRANTS AND RESEARCH DEVELOPMENT

- 2020 Co-Principal Investigator
The Maritime Asia Heritage Survey
Arcadia Foundation
5,000,000 pounds sterling awarded over five years.
- 2020 Co-Principal Investigator
A Paleo-seismic record of repeated great earthquakes on the Sunda Megathrust, Sumatra.
Earth Observatory of Singapore
\$994,809 SING requested over three years.
- 2018 Co-Principal Investigator
Improvements in the Paleo-tsunami Record Along the Aceh coast of Sumatra.
Earth Observatory of Singapore
\$524,106 SING Awarded over two years.
- 2017 Co-Principal Investigator
Endangered Heritage and Environment in the Maldives Survey.
Arcadia Foundation
500,000 pounds sterling Awarded over two years.
- 2017 Principal Investigator
Aid governance, resilience, and community-driven reconstruction in urban settlements in the Kathmandu Valley following the 2015 earthquake.
Earth Observatory of Singapore
\$294,400 SING Awarded over three years.

- 2017 Principal Investigator
Natural Hazards and Society in Asia (NHSA) Post-doctoral Fellowship Program
Earth Observatory of Singapore
\$500,000 SING Awarded over 2 years.
- 2017 Co-Principal Investigator
Does the demise of medieval Angkor offer lessons for the sustainability of modern societies? Proposal for a collaborative archaeological and geological investigation.
Earth Observatory of Singapore
\$300,000 SING Awarded over 1 year.
- 2015 Co-Principal Investigator (with Jennifer Duyn Barenstein & Pia Hollenbach, World Habitat Research Centre, University of Applied Sciences and Arts of Southern Switzerland)
Towards an inclusive urban reconstruction policy development in Nepal
IIED
29,875 GBP Awarded over 1 year
- 2015 Principal Investigator
Aftermath of Aid – Analysis and Publication Phases
Earth Observatory of Singapore
\$141,200 SING] Awarded
- 2015 Co-Principal Investigator (with Professor Kerry Sieh, Earth Observatory of Singapore)
Interaction of Geohazards and Settlements through the Past Millennium, Banda Aceh, Indonesia.
Earth Observatory of Singapore
\$383,760 SING Awarded
- 2013 Co-Principal Investigator (with Susan Eriksson, Earth Observatory of Singapore)
Science-Society Engagement in Aceh: An evidence-based approach to inform disaster mitigation decisions with hazard science.
Earth Observatory of Singapore
\$211,500 SING Awarded
- 2013 Co-Principal Investigator (with Professor Charlie Rubin, Earth Observatory of Singapore)
Paleotsunami history of northwestern Aceh Province, Sumatra, Indonesia.
Earth Observatory of Singapore
\$91,722 SING Awarded
- 2013 Principal Investigator
The Aftermath of Aid: Assessing the Effectiveness and Sustainability of Post-Disaster reconstruction in Aceh, Indonesia.
Earth Observatory of Singapore
\$ 525,000 SING Awarded
- 2012 Co-Principal Investigator (with Professor Charlie Rubin, Earth Observatory of Singapore)
Paleotsunami history of northwestern Aceh Province, Sumatra, Indonesia Earth Observatory of Singapore
Earth Observatory of Singapore
\$130,000 SING Awarded
- 2011 Principal Investigator
Urban Planning and Disaster Resilience: Changing practices following the 1990 Baguio City Earthquake Disaster
AcRF Tier 1 Grant, National University of Singapore
\$14,177.60 SING Awarded
- 2011 Principal Investigator
Positioning the Deep Past within Palestinian Narratives of Nation

- AcRF Tier 1 Grant, National University of Singapore
\$7,750 SING Awarded
- 2011 Co-Principal Investigator (with Professor Kerry Sieh, Earth Observatory of Singapore)
A Geoarchaeological and Paleoseismic Investigation of Ancient Tsunamis, Northern Sumatra, Indonesia
Earth Observatory of Singapore
\$83,230 SING Awarded
- 2011 Co-Principal Investigator (with Dr. Michael Frachetti, Dept. of Anthropology, Washington University)
Nias Island Assessment of Social and Ecological Change
Planet Action
\$27,000 USD Awarded
- 2010 Co-Principal Investigator (with Professor Kerry Sieh, Earth Observatory of Singapore)
A preliminary Investigation of the history of tsunami and seismic activity in Northern Sumatra
Earth Observatory of Singapore
\$86,294 SING Awarded
- 2009 Co-Principal Investigator (with Dr. Michael Frachetti, Dept. of Anthropology, Washington University)
Coastline loss and the socio-environmental impact of displaced communities: Correlating environmental catalysts for shoreline change with human responses
McDonnell Academy Global Energy and Environment Partnership, Washington University
\$39,950 USD Awarded
- 2008 Principle Investigator – Conference co-Organizer with Dr. Tim Winter, University of Sidney, Associate Professor Johannes Widodo, NUS
Back to the Future: Heritage and Sustainability
\$5,000 SING Awarded
- 2008 Principle Investigator
Culture, Transformation, and Development: Contested Lynchpins of Relief and Reconstruction
ARI Conference and Research Grant Fund, National University of Singapore
\$3,980.00 SING Awarded
- 2008 Principle Investigator
Religious Heritage and Conflict – Shared and Contested Religious Heritage Sites in Nablus, Palestine
ARI Conference and Research Grant Fund, National University of Singapore
\$4,982 SING Awarded
- 2008 Principle Investigator – Conference co-Organizer with Dr. Tim Winter, University of Sidney
Converging Forces, Conflicting Values: Rethinking Heritage in Asia
ARI Conference and Research Grant Fund, National University of Singapore
\$22,000 SING Awarded
- 2007 Principle Investigator
Aceh Prehistory Project: A preliminary exploration of Human and Seismic activity during the later Pleistocene and Holocene in Northern Sumatra
ARI Conference and Research Grant Fund, National University of Singapore
18,050 SING Awarded
- 2007 Co-Principle Investigator
A comparative assessment of community rehabilitation and decentralization in Post-Tsunami Aceh
ARI Conference and Research Grant Fund, National University of Singapore
9,510 SING Awarded

- 2007 Collaborator
Reconstituting Society in a Traumatized Environment: Multi-disciplinary investigations of law, government and community in post-conflict, post-tsunami Aceh
Singapore Ministry of Education
1,000,000 SING Rejected
- 2006 Co-Investigator
The First International Conference for Aceh and Indian Ocean Studies
Reconstruction and Rehabilitation Agency for Aceh and Nias (BRR) Indonesia
Amount Requested: \$307,000 SING Awarded
- 2004 Principal Investigator
An analysis of the earthenware ceramics from the secondary cave mouths at the Niah Cave complex, Sarawak, East Malaysia
D. M. McDonald Grants and Awards Fund, McDonald Institute for Archaeological Research, University of Cambridge
Amount Requested: 6,250 pounds sterling Awarded
- 2004 Principal Investigator
A comparative analysis of the Neolithic ceramics from the Niah Cave West Mouth Cemetery, Sarawak, East Malaysia
British Academy for the Reckitt Traveling Fellowship in Archaeology
Amount Requested: 19,950 pounds sterling Awarded
- 1997 Co-author
High Risk Exploratory Research: Archaeological Survey Along the Northern Finnish Russian Border
National Science Foundation
Amount Requested: \$20,000 USD Awarded
- 1997 Co-Principal Investigator SUN Microsystems Academic Equipment Grant.
Submitted through the Archaeology GIS Laboratory at the Department of Anthropology, State University of New York at Buffalo.
Amount Requested: list price c. \$56,000 USD Awarded
- 1997 Co-Principal Investigator SUN Microsystems Academic Equipment Grant.
Submitted through the Institute of Archaeology, University of Oxford.
Amount Requested: list price c. 40,000 Pound Sterling Awarded
- 1995 Co-Investigator
The Establishment of a Center for Applied GIS and Remote Sensing in reference to Northern Archaeology through a Multidisciplinary and International Venue
Thule Institute, Finland
Amount Requested: 184,350 FIM Awarded

TEACHING

Nanyang Technological University

1) Climate Change

National University of Singapore

- 1) The Politics of Heritage
- 2) Disasters and Responses
- 3) Environment and Society
- 4) Creating Reality Through Non-Fiction Film

An – Najah National University, Palestine

- 1) Introduction to Archaeology
- 2) Introduction of Cultural Anthropology
- 3) World Prehistory
- 4) Survey and Technical Illustration for Archaeologists
- 5) Material Culture Studies
- 6) Cultural Heritage, Politics, and Conflict

University of Oxford

Oxford Archaeology & Anthropology archaeological field school

GRADUATE STUDENTS SUPERVISED

Monica Smith, PhD Dept. of Geography, National University of Singapore.

Title: *Construction of sexuality and Desire: Sri Lankan domestic migrant workers in Lebanon*

Yenny Rahmayati, PhD School of Design and Environment, National University of Singapore

Title: *Disaster and Reconstruction: Social-Cultural Impacts on Domestic and Urban Space Typology and Morphology*

Jamie McCaughley, PhD Division of Human-Environment Systems, ETH Zurich.

Title: *Perceptions of Risk in Post-Tsunami Aceh, Indonesia*

Cut Dewi, PhD The Australian National University

Title: *Heritage Planning in Banda Aceh after the 2004 Tsunami Disaster: Examining the Role of Public Architecture Heritage*

UNIVERSITY SERVICE

- Management Board: Earth Observatory of Singapore
- Steering Committee NUS Faculty of Arts and Social Science Environmental Studies Research Cluster
- Editorial Board – International Journal of Heritage Studies
- University Town Academic Taskforce: Third Module
- Co-coordinator ASEAN Graduate Forum, National University of Singapore
- Asia Research Institute Social Committee 2005 - present
- Asia Research Institute Steering Committee 2006 – 2007
- Asia Research Institute Seminar Committee 2005 – 2007

MERITS AND AWARDS

- NUS Annual Teaching Excellence Award 2013; 2014
- NUS Faculty Teaching Excellence Award 2011; 2012; 2013
- British Academy Research Fellowship 2004
- Oxford University Overseas Research Award 1997 to 2001