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Table of Contents

Keynote Address & Plenary Sessions ......................................................... 1
Opening Keynote: The Hip Hop Architecture ........................................... 3
Closing Keynote: Connection Versus Correction ........................................ 3
Opening Ceremony with Land Recognition & Special Remarks ..................... 4
Planery Session: Post-Colonial Decolonization Design with Communities: Transform our design thinking, research, and practice moving forward ............................................. 5

Awards & Recognition ........................................................................... 9
EDRA Awards and Recognition Committee ............................................. 10
2020 Michael Brill Grant Recipient ........................................................ 11
EDRA 2020 Career Awards ....................................................................... 12
2020 Certificate of Research Excellence (CORE) Recipients & Jurors .............. 13
EDRA Great Places Awards 2020 ............................................................ 17

Refereed Full Papers ............................................................................. 21
Methodology for Measuring Arable Land in Urban and Suburban Morphology .................................................................................. 23
An Environmental-Economic Friendly Construction, Robot-Aided Fabrication with Clay: An Experimental Study ........................................... 29
Building Performance Evaluation in Hospital Ward Planning By Nursing Travel Distance Simulation Using BIM ............................................. 40
Environmental Influence on Pro-Environmental Behavioral Intentions, Pro-Social Behavioral Intentions, and Donative Behavior .................................. 50
Emergency Management and Signage System of Chubu International Airport: A Study on Facility Management of Airport Terminal Building .................................................. 63
Examining Police Officer’s Workplace in Police Box and Residential Police Box in Mie Prefecture, Japan ..................................................... 72
Forms of Nature in Play-Space Making ...................................................... 80
Farmers Markets As Restorative Environments ........................................ 89
Living in Transition: Displacement and Temporary Living Arrangements after the Woolsey Fire in Southern California ...................................................... 101
Designing Inclusive SMART Cities: The Opportunities and Challenges ..................................................... 115
Fuhais Community Identity As Defensibility Mechanism Against Threats of Urban Sprawl ................................................................. 123
Using Post-Occcupancy Evaluation to Analyze the Effective Use of Photovoice and Focus Groups in Developing a Successful Program for an International Service Learning Design Project ................................................ 139
Historic Preservation Survey Methodology for Equitable Outcomes ............. 154
Just US: Equity-Centered Revitalization in Traditionally BLACK Neighborhoods .................................................................................. 171
The Analysis of Bias with Visual Illustrations ........................................ 180

Abstracts - Individual Presentations ...................................................... 185
Abstracts - Group Presentations ............................................................... 283
Abstracts - Pre-Conference Intensives ..................................................... 303
Abstracts - Video Shorts ........................................................................ 311
Abstracts - Posters ................................................................................ 315
Reviewers .............................................................................................. 353
Author Index .......................................................................................... 357
2020 is a peculiar year. At the time I am writing this introduction to the EDRA 51 proceedings, the world is three months into the COVID-19 pandemic global health crisis, one month into lifting the stay-at-home order in Arizona, and two weeks into world-wide protests for Black Lives Matter, an anti-racism movement initiated in the United States. The persistence of systemic racism inherited from slavery and the colonial past is perpetuated in the built environment and many communities around the world today. The recent pandemic crisis and prolonged climate change impacts have revealed the inequitable burdens and exacerbated injustice in minority and vulnerable communities. This is the time to deeply reflect and criticize the current structures and systems in place that are relevant to our work in environmental design research for building just, resilient, and sustainable futures.

This year, the Environmental Design Research Association (EDRA) invited practitioners, researchers, and educators to join the 51st annual conference to collectively rethink how socially embedded, inclusive, and collaborative environmental design may serve as a foundation for transforming society and addressing the major challenges we are facing in the world. Over five hundred and fifty people answered our call for proposals in the early stage. Unfortunately, due to the COVID-19 outbreak, the in-person conference could not take place as planned by the local hosts—the EDRA 51 Conference Committee at The Design School, Arizona State University, in Tempe, Arizona, joined by other ASU faculty, student, and local practitioner volunteers. The participants would have enjoyed the warm sunshine in beautiful spring days of Arizona and various mobile sessions and activities we planned for you: the Taliesin West Frank Lloyd Wright UNESCO world heritage site, Paolo Soleri’s arcology laboratory of Arcosanti, the original space research in desert environment of Biosphere 2, the many wonders of the Sonoran Desert region at Tucson’s Desert Museum, Scottsdale’s McDowell Sonoran Preserves, Phoenix’s Sonoran and South Mountain Parks and Preserves, the river social-ecological systems along the Rio Salado, the cultural heritage of historical and midcentury Phoenix’s architectural sites, the sustainability practices and campus design at Arizona State University, the biomimicry research and practice, and learning about soundscape through a unique sound walk experience. We would have welcomed you and congratulated the EDRA, CORE, and GREAT PLACES award winners at an outdoor plaza luncheon at ASU The Design School with our local delights, and celebrated with old and new friends at the evening banquet in the world renowned Phoenix Botanical Garden accompanied with unique desert landscapes, drinks, food, music, and dance under the stars. Arizona missed you. I sincerely hope you will have a chance to come visit in the future.

When COVID-19 hit the United States in March, many conferences faced the most strenuous situation of deciding whether to cancel, postpone, or shift to a virtual platform and how to handle registrations. The EDRA51 Conference Committee worked closely with the EDRA Board and EDRA Executive Director. Each decision we made together was difficult and taken seriously. With the tremendous help from a newly formed EDRA51 Virtual Committee less than a month before the start of the conference, and with dozens of volunteers who helped to host and manage each session, I am grateful that the EDRA 51 was able to take place virtually with over 350 participants coming from over 14 countries through 270 individual and group presentations and 90 visual presentations, and three plenary sessions—an opening keynote, a closing keynote, and a panel discussion. We addressed how socially embedded collaboration with communities transform environmental design research at all scales to move communities beyond status-quo toward more sustainable and resilient models with adaptive and transformative capacities. In lieu of mobile sessions, EDRA51 responded to the emerging challenges of pandemic urbanism through an impromptu virtual workshop. In addition, EDRA51 hosted a virtual happy hour, serving as a nectar to quench the thirst of connecting with EDRAers in the time when shelter-in-place and social/physical distancing have become a new norm for many. Thanks to everyone who participated and made our first virtual EDRA conference a success.

Thanks to all reviewers who helped in the peer-review process for the conference papers and abstracts, and thanks to the editorial board for overseeing the quality of this document. The EDRA51 Proceedings is a collection presenting the multiple facets of how environmental design research collaborates with academia, not-for-profit organizations, public sectors, and private sectors to lead the charge in transforming people’s relationships with each other, their communities, and their environments toward net positive futures. The EDRA51 Proceedings is organized
by presentation types—referred full papers, abstracts-individual presentations, abstracts-group presentations, abstracts-pre-conference intensives, abstracts-video shorts, abstracts-posters—in addition to the following conference tracks:

A - Transform Design for Resilience & Sustainability  
B - Transform Education for Our Common Future  
C - Transform in Transitions  
D - Transform Places with People and the Environment  
E - Transform Processes and Outcomes for Equity

Today, our world is more connected and more complex with persistent and prolonged issues, as well as new challenges that exist in every community, including but not limited to: systemic racism, social and environmental justice, climate change and climate justice, environmental quality, biodiversity, health, technology, communication, and education. Our work must continue to reveal and address those challenges, produce new knowledge in environmental research, develop innovative and integrated environmental design solutions and practices, and contribute to policy-making for actionable change. EDRA is fully committed to this work with you.

We look forward to seeing you in EDRA 52!

Sincerely,  
Chingwen Cheng, PhD, PLA, LEED AP  
EDRA Chair-Elect & Program Committee Chair  
EDRA 51 Conference Committee Chair

Special Thanks to EDRA 51 Volunteers:

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Author Index

A
Abdelazim, Mariam 292
Abdelmonem, Marwa 199
Abudayyeh, Rana Kamal 210
Afsary, Shermineh 29, 250, 252
Agiel, Ahmed 213
Ahmadi Oloolooabadi, Saeed 300, 336
Ahn, Kyuho 270, 350
Akturk, Aysegul 263
Alborzi, Arash 23
Al-Homoud, Majd 123
AlKhaled, Saud R 187, 191
Alsaygh, Fares 313, 338
Ambrose, Kristen A 236
Amor, Cherif M. 212
Andreyev, Elsie 269
Angne Alfaroo, Sara Marie 205
Arwed, Florian 319
Asuncion, Olivia M. 270
Awamleh, Zaid 224

B
Bachman, Rebecca 197
Bagais, Reem Hassan 239
Balabanoff, Doreen 254
Barajas, Estefania 236
Baran, Perver K 336
Bartlett, Lyria 326
Bayramzadeh, Sara 223
Bazaid, Rana Hassan 324
Bean, Jonathan 193
Bernasconi, Claudia 220, 301
Bernheimer, Lily 262
Bicak, Nathan 272
Boeck, David 139
Bonnell, Kevin 208
Booher, Susan G. 331
Bose, Mallika 287
Bourne, Angela 215
Brakke, Aaron 258
Brazeal, Anthony 187
Broesicke, Osvaldo A. 318
Brown, Barbara 342
Brown, Brendan 269
Brown, Tony 285
Bruin, Marilyn 348, 350
Burpee, Heather 226
Byun, Youngmee Kate 230, 327

C
Cai, Hui 222, 294
Callewaert, John 192
Calmon, Alice 346
Carbajales-Dale, Patricia 259
Chandrasekera, Tilanka 212
Chang, Carl 244
Chang, Ye Jin 344
Chaudhury, Habib 317
Chen, Fanghua 271
Cheng, Chingwen 5, 187, 195, 211, 233, 273, 274, 287, 321
Chen, Mingzheng 346
Chester, Mikhail 194
Cho, Yongyeon 335, 338
Clouse, Carey 219, 267, 323
Coldebella, Larissa 328
Cole, Charles Andy 201
Cole, Laura Brianna 263
Colwell, Malinda 215
Copic, Colette 274
Coppin, Peter 330
Coronado, Irasema 6
Coseo, Paul 187, 191, 201, 211, 319
Costello, Jacob 332
Coulombe, Simon 208
Crank, Peter 201
Cranz, Galen 286
Crichlow, Gregory 229, 288
Crittenden, John 318
Cruwys, Tegan 244

D
Dalla Costa, Wanda 6
Darvish, Taraneh 273
Dasarapalli, Yashaswini 346
Davidson, Rylie 341
Davis, Kara 334
Davoli, Margherita 220
de la Peña, David 286
Demir, Ozlem 203
Desai, Maya 330
Desha, Cheryl 194
Devlin, Ann Sloan 50, 334
Diehl, Jessica 217, 278
Ding, Suining 259
Dombrovski, Kelsea 89
Doyle, Nancy 248
Drucker, Susan 299
Duffey, Melanie 242
Dunham-Jones, Ellen 318

E
El Begermy, Nouran M 240
El Kharbawy, A. Sameh 228, 280
El Sayed, Sara 218
Elzeyadi, Ihab 298
Emery McClure, Ursula 197
Engineer, Altaf 306
Engler, Mira 318
Ensafi, Mahnaz 248
Entezari, Hossein 318
Esmaili, Maral 212
Ewan, Joseph Michael 234

F
Faccin, Victoria 344
Farbstein, Jay 296
Farhadi, Fahimeh 345
Farling, Melissa M. 296
Fathi, Lean Hatim 264
Fehler, Michelle 218
Ferguson, Beth 198
Ferguson, Elizabeth 321
Fisher Culberson, Kari 209
Fishman, Cynthia 319
Flanagan, Robert 307
Floyd, Anthony 285
Fong, Polly 244
Foong, Susan 333
Ford, Michael 3
Franck, Karen 291, 301
Franklin, Casey 288
Franks, Andrea 257, 259
Frederick, Laura 237
Freihoefer, Kara 248
Freije, Hope 197
Frimpong Boamah, Emmanuel 191
Frisz-Conlon, Amy M 215
Froh, Emma 292
Author Index

G

Gabr, Hisham S 240
Gaines, Kristi 199, 215
Gale, Amanda 209, 231, 232
Garshasby, Mohsen 233
Garza, Cristina Michelle 342
Gharipour, Mohammad 252
Ghaziani, Rokhshid 238
Ghosh, Tuhin 190
Gill, Becky 222
Gobes Ryan, Sheila 298
Gobster, Paul H 261
Godfrey, Anne C 229, 293
Goetz, Victoria 318
Gold, Martin 23
Goold, Jennifer 278
Goza, Franklin 190, 203, 240
Grimm, Nancy 229, 293
Gum, Dawn 288
Gumpert, Gary 299

H

Habermehl, Melissa 320
Hadavi, Sara 261
Hadjyanni, Tasoulla 217, 269
Haenraets, Jan 280
Hamilton, Erin Miller 190, 203, 240
Hamin, Mark 267
Hamstead, Zoe 191
Han, Li 180
Haq, Saif 221
Hardy, Steven 272
Harris, Lesley Maradik 230
Harte, Davis 254, 332
Harvey, Chester 258
Hasirci, Deniz 224
Haslam, Catherine 244
Haslam, S. Alexander 244
Hawash, Dina 123
Hayes, Samantha 194
He, Chen 245
Heithoff, Abigail 289
Helmrich, Alysha 194
He, Nicholas 247
Herndon, Anne 236
Hicks, Travis 209
Hidalgo, Ana Karinna 206
Ho, Kai 349
Holcombe, Alexis 200
Honda, Yuka 337, 338
Honda, David 191, 319
Horikoshi, Mai 341
Hoskins, Lisa 199
Hou, Jeffrey 287
Hron, Cynthia 330
Hsieh, Po-Sheng 325
Huang, Alice 299
Huang, Te-Sheng 292
Huang, Yiwei 204
Hu, Erping 322
Hung, Lillian 317
Hunt, Alex 225
Huntley, Sarah 299
Hynson, Briony 278

I

Imai, Natsuki 63
Islam, Md. Azizul 212
Islam, Mohammed Zakiul 243
Islam, Zahid 227
Ito, Kai 347
Iturregui, Ivan dario 338

J

Jackson, Molly Elizabeth 326
Jafarifiroozabadi, Roxana 247, 257, 259
Jalalianhosseini, Mahshid 248
Jayadas, Aditya 341
Jean-Christophe, C. Pettersen 238
Jensen, Wyatt 342
Jiang, Feifan 323
Jimenez, Francesqca E 290
Johnston, Andrew 231
Johnston, Kimberly 288
Joines, Sharon 207
Joseph, Anjali 199, 247, 253, 257, 328
Joshi, Rutali 247, 253, 328
Juhasz, Joseph 307
Junqueira, Mariana 101, 320

K

Kader, Sharmine 207, 301
Kamtam, Prakash 115
Kandari, Sweta 327
Kang, Mihyun 223
Kaprielian, Gabriel 300
Karawiya, Sherin 212
Kar, Gourab 286
Karimi, Maryam 235
Kato, Akikazu 40, 298
Kay, Braden 191, 319
Kellom, Kristy 232
Keskin, Gökhan 270
Kesseler, Matthew 346
Khan, Amani 324
Kia, Atina 340
Kimball, Laura Claire 268
Kim, Byungsou 207
Kim, Daejin 244, 344
Kim, Eun Young 225, 280
Kim, Joongsub 281
Kim, Karen 348
Klein, Charles 215
Kobayashi, Ryota 72
Konda, Anu 346
Konishi, Chiaki 340, 345
Koo, Jayoung 204, 320
Kopec, Dak 261
K rings, Amy 274
Kuhns, Alyssa 251
Kuwabara, Kosuke 340

L

Labbé, Danielle 238
LaMontagne, Neal 196
Langhorst, Joern 308
Lee, Hyunsoo 254
Lee, Jae Hwa 230, 347
Lee, Jisun 254
Lee, Seyeon 188
Lee, Sook Young 317
Liao, YuWen 274
Lim, Huiwon 338
Linda 232
Lindquist, Mark 235
Lindsay, Erika 225
Lindsay, Georgia 263
Lin, Qingrou 347
Liu, Dingyi 246
Liu, Pa 263, 344
Liu, Yung-Chieh 346
Lopez Barrera, Silvina 214
Luo, Qing Lana 218
Lu, Yanhua 234
Lu, Zhipeng 260
Lv, Hongyi 342
Lyu, Qiannan 271
M
Macchi, Alessia 254
Majumdar Narayan, Debarati 191, 195
Malak, Sarah Khalid 80
Malloy, Eliza 344
Manfredi, Louise 188
Mantooth, Renae N 210
Marans, Robert W 192
Marcin, Cammi 334
Margrett, Jennifer 244
Markolf, Samuel 194
Marshall-Baker, Anna 231
Marta, Broković Dodig 326
Middel, Ariane 187, 191, 319
Milipillan, Edmundo Roberto 192
Miller, Keith A 305
Mitsui, Kengo 209
Mojtahedi, Amin 333
Morne, Jacob 4
Mortorff, Taylor 349

N
Nahirafee, Elnaz 240
Nakashima, Mitoko 346
Nasu, Satoko 189
Nee, Micaela Lynne 50
Neuville, Rhiannon 197
Newnham, Elizabeth 254
Nicodemus, Diane 317
Nizhelski Álvarez, Alexander Grigorievich 238
Noble, Lilly 334
Norouzi, Neda 324, 331, 342
Norton, Ruth Ann 269
Nubani, Linda 232, 301
Nyaupane, Gyan 5

O
Oh, Yeinn 318, 336
O’Leary, Ceara 220
Ossmann, Michelle 253, 328
Owens, Patsy Eubanks 204
Ozkaynak, Merve 203

P
Pal, Indrajit 190
Park, Hye Jeong 338
Parkinson, Sharran 239
Park, Jeongok 320
Park, Jinho 207
Pasalar, Celen 210
Passe, Ulrike 318
Patel, Tina 205
Patera, Sofia 220
Pati, Debajyoti 199, 231, 248, 324
Patusky, Lisa 329
Paxson, Lynn 308
Payne, Ifan 332
Pearson, Michelle 203, 215
Peng, Bo 347
Pereira, Gabriela 223
Persky, Erin 296
Pesarakli, Homa 260
Peterson, Gabrielle 334
Phillips, Daniel 235
Pirrallo, Ronald 253
Popov, Lubomir 189, 276
Price, Lillie 268
Prozzillo, Fred 294
Puttlick, Robin Z. 272

Q
Qian, Xuanyu 277
Qiao, Qian 342

R
Rae, Ruth 285
Rajkovich, Nicholas 191
Rane, Apoorva P 190, 231
Rashid, Mahbub 250
Rezaei Ghaleh, Marzieh 195
Ribes, Stefano 220
Rich, Renae K 290
Rico, Zayra 331
Rider, Traci Rose 236, 256
Rigolon, Alessandro 261
Rocchi, Elena 294
Rolla, Silvia 271
Roseland, Mark 6
Ruggeri, Deni 287
Runnerstrom, Miryha Gould 263, 337
Rushton, Chelsea 286

S
Sabrin, Samain 235
Saedi, Hossein 257, 281
Saio, Naoko 337
Salkhi Khasraghi, Gisou 338
Samani, Kviža 346
Samples, Samantha 266
Sanguinetti, Angela 89
Sanguinetti, Paola 29
Sankararaman, Nevedita 318
Sasaki, Kohei 345
Sato, Masayuki 341
Schar, Cathi Lynn Ho 205
Scherner, Brian 265
Schneider, Florian Arwed 194, 317
Schnobrich, Corey 277
Scholfield, Kevin 321
Schramm, Ulrich 297
Schulze, Stacey 233
Schusler, Tania 274
Schwann, Alyssa 280
Seibert, Matthew 211
Setola, Nicoletta 254
Shen, Juo-Ying 256
Shimada, Hitomi 339
Shim, Pono 3
Shultz, Hannah 266
Sickler, Stephanie 209
Simon, Madlen 267
Simpson, Amanda 248
Spassov, Emanouil 252
Spreckelmeyer, Kent 294
Stanard, Virginia 220
Stewart, William 261
Sunaga, Chikage 338
Su, Yuting 278
Sveinson, Caila Dawn 329
Sweeney, Kiersten 269
Szabo, Sylvia 190
Sziklagyi-Nagy, Anna 242, 300
Author Index

T
Tagliaro, Chiara  220
Taheri, Helia  236, 256
Tajima, Shota  189
Takagi, Miodori  40
Takamura, John Hiroomi  193
Takeuchi, Takahiro  40
Tamminga, Kenneth  201
Tang, Wei  343
Terzano, Kathryn  328
Thompson, Diego  214
Tolderlund, Leila  309
To, Pui Yee Nikkie  330
Torres, Juan  238
Tracy, Torrey  332
Trakas, Amanda  321
Trinh, Phu  324
Tsuchida, Hiroshi  338, 339, 345
Tu, Hung-Ming  256, 325
Tyne, Intisar Ameen  292
Typhina, Eli  226

U
Udupa, Ananth  319

V
Vaid, Uchita  214
Vakil, Nilou  288
Vallerand, Olivier  204
Vanos, Jennifer  191, 319
Vardi Topal, Hanife  291
Volkova, Anastasiya  267

W
Wakeley, Jack Ross  350
Wang, Huili  215
Wang, Jun  318
Wang, Yujia  206
Wang, Zhe  202, 251, 321-323, 343, 344
Ware, Charles Walter  187
Warren, Nik  263, 337
Watchman, Melanie  241
Weber, Eric  261
Webster, Noah  192
Weidemann, Sue  299
Wener, Richard Elliot  296, 299
Werner, Carol  342
Wheeler, Stephen  89
Wilder, Denise  306
Williams, Douglas A.  192
Williams, Robert  219
Williams, Tera  154, 170
Wilson, Julia  328
Wood, Sarah  236
Wu, Hongbo  321

X
Xiao, Xiongfeng  343
Xie, Yumeng  208, 211

Y
Yamaguchi, Kyohei  40
Yang, Fuhua  322
Yan, Han  291
Yanksari, Faten  325
Yekita, Hamed  324
Yi, Charleston  207
Yoon, Brandon  337
Yoon, So-Yeon  247, 254
Yue, Li  342

Z
Zamani, Zahra  286
Zawaruis, Phillip  191
Zborowsky, Terri  253
Zekos, Erika  335
Zeng, Zhongzhong  246, 271
Zhang, Bo  246, 271
Zha, Yilun  318
Zheng, Yiwen  246
Zhou, Mo  332
Zilm, Frank  294
Zimmer, Linda  270
Zuo, Weican  228