

Contents

- 12 **Why Ecological Urbanism? Why Now?**
Mohsen Mostafavi

ANTICIPATE

- 56 **Advancement versus Apocalypse**
Rem Koolhaas
- 72 **Zeekracht**
OMA
- 78 **Mumbai on My Mind:
Some Thoughts on Sustainability**
Homi K. Bhabha
- 84 **Urban Earth: Mumbai**
Daniel Raven-Ellison and Kye Askins
- 94 **Notes on the Third Ecology**
Sanford Kwinter
- 106 **Social Inequality and Climate Change**
Ulrich Beck
- 110 **For a Post-Environmentalism:
Seven Suggestions for a New Athens
Charter and The Weak Metropolis**
Andrea Branzi
- 114 **Weak Work:
Andrea Branzi's "Weak Metropolis"
and the Projective Potential of an
"Ecological Urbanism"**
Charles Waldheim
- 122 **From "Sustain" to "Ability"**
JDS Architects
- 124 **Forty Years Later—
Back to a Sub-lunar Earth**
Bruno Latour

COLLABORATE

- 130 **Art Fieldwork**
Giuliana Bruno
- 132 **Ecological Urbanism
and/as Urban Metaphor**
Lawrence Buell
- 134 **Black and White in Green Cities**
Lizabeth Cohen
- 136 **The Return of Nature**
Preston Scott Cohen and Erika Naginski
- 138 **Urban Ecological Practices:
Félix Guattari's *Three Ecologies***
Verena Andermatt Conley
- 140 **Retrofitting the City**
Leland D. Cott
- 142 **Productive Urban Environments**
Margaret Crawford

SENSE

- 146 **The City from the Perspective of the Nose**
Sissel Tolaas
- 156 **Urban Earth: Mexico City**
Daniel Raven-Ellison
- 164 **CitySense: An Urban-Scale Sensor Network**
Matt Welsh and Josh Bers
- 166 **Eat Love**
Marije Vogelzang
- 168 **Self-Engineering Ecologies**
Christine Outram, Assaf Biderman, and Carlo Ratti
- 174 **There's More to Green than Meets the Eye:
Green Urbanism in Bahrain**
Gareth Doherty
- 184 **Play Me, I'm Yours**
Luke Jerram
- 186 **Mapping Main Street**
Jesse Shapins, Kara Oehler, Ann Heppermann,
and James Burns

CURATE

- 190 **Curating Resources**
Niall Kirkwood
- 194 **The Sea and Monsoon Within:
A Mumbai Manifesto**
Anuradha Mathur and Dilip da Cunha
- 208 **Transcendent Eco-cities
or Urban Ecological Security?**
Mike Hodson and Simon Marvin
- 218 **New Waterscapes for Singapore**
Herbert Dreiseitl
- 222 **To Raise the Water Level in a Fishpond**
Zhang Huan
- 224 **Envisioning Ecological Cities**
Mitchell Joachim
- 230 **Return to Nature**
Sandi Hilal, Alessandro Petti, and Eyal Weizman
- 236 **Harmonia 57**
Triptyque
- 238 **Grounding a Sustainable Urban Strategy**
Michael Van Valkenburgh Associates
- 240 **Center Street Plaza**
Hood Design

PRODUCE

- 244 **Energy Sub-structure,
Supra-structure, Infra-structure**
D. Michelle Addington
- 252 **Wave Farm**
Pelamis Wave Power Ltd.
- 254 **CR Land Guanganmen Green
Technology Showroom**
Vector Architects
- 256 **Aux Fermes, Citoyens!**
Dorothee Imbert

- 268 **Local River: Home Storage Unit
for Fish and Greens**
Mathieu Lehanneur with Anthony van den Bossche
- 270 **Soft Cities**
KVA MATx
- 274 **The ZEDfactory**
Bill Dunster
- 280 **Logroño Eco-city**
MVRDV
- 282 **The Big-Foot Revolution**
Kongjian Yu
- 292 **La Tour Vivante, Eco-tower**
soa architectes

COLLABORATE

- 296 **Management Challenges in Urban
Transformation: Organizing to Learn**
Amy C. Edmondson
- 298 **Air Purification in Cities**
David Edwards
- 300 **Social Justice and Ecological Urbanism**
Susan S. Fainstein
- 302 **Governing the Ecological City**
Gerald E. Frug
- 304 **Underground Future**
Peter Galison
- 306 **Temperate and Bounded**
Edward Glaeser
- 308 **Bioinspired Adaptive Architecture
and Sustainability**
Donald E. Ingber

INTERACT

- 312 **Urban Ecology and the Arrangement of Nature in Urban Regions**
Richard T.T. Forman
- 324 **The Agency of Ecology**
Chris Reed
- 330 **New York City Infrastructure**
Christoph Niemann
- 332 **Redefining Infrastructure**
Pierre Bélanger
- 350 **User-Generated Urbanism**
Rebar
- 356 **Situating Urban Ecological Experiments in Public Space**
Alexander J. Felson and Linda Pollak
- 364 **A Holistic View of the Urban Phenomenon**
Barcelona Urban Ecology Agency
- 370 **Gwanggyo New City Park System**
Yoonjin Park and Jungyoon Kim (PARKKIM)
- 372 **A Methodology for Urban Innovation**
Alfonso Vegara, Mark Dwyer, and Aaron Kelley
- 374 **Greenmetropolis**
Henri Bava, Erik Behrens, Steven Craig, and Alex Wall

MOBILIZE

- 380 **Mobility, Infrastructure, and Society**
Richard Sommer
- 382 **Sustainable Urban Mobility through Light Electric Vehicles**
William J. Mitchell
- 398 **Sustainable Mobility in Action**
Federico Parolotto
- 402 **Sustaining the City in the Face of Advanced Marginality**
Loïc Wacquant

- 406 **A General Theory of Sustainable Urbanism**
Andrés Duany
- 412 **The Political Ecology of Ecological Urbanism**
Paul Robbins
- 416 **The SynCity Urban Energy System Model**
Niels Schulz, Nilay Shah, David Fisk, James Keirstead, Nouri Samsatli, Aruna Sivakumar, Celine Weber, and Ellin Saunders
- 420 **Oil City: Petro-landscapes and Sustainable Futures**
Michael Watts
- 425 **Niger Delta Oil Fields**
Ed Kashi
- 428 **The Upway**
Rafael Viñoly
- 430 **GSD RESEARCH
Nairobi Studio**
Jacques Herzog and Pierre de Meuron

MEASURE

- 444 **Five Ecological Challenges for the Contemporary City**
Stefano Boeri
- 454 **Revolutionizing Architecture**
Jeremy Rifkin
- 456 **The Canary Project**
Susannah Saylor
- 458 **“Performatism”: Environmental Metrics and Urban Design**
Susannah Hagan
- 468 **Nature Culture**
Kathryn Moore
- 472 **Investigating the Importance of Customized Energy Model Inputs: A Case Study of Gund Hall**
Holly A. Wasilowski and Christoph F. Reinhart
- 476 **Perception of Urban Density**
Vicky Cheng and Koen Steemers

- 482 **London's Estuary Region**
Sir Terry Farrell
- 488 **Urban Earth: London**
Daniel Raven-Ellison
- 496 **Sustainability Initiatives in London**
Camilla Ween
- 500 **Moving beyond LEED:
Evaluating Green at the Urban Scale**
Thomas Schroepfer
- 502 **Landscapes of Specialization**
Bill Rankin
- 504 **GSD RESEARCH**
**Half a Million Trees: Prototyping Sites
and Systems for Sustainable Cities**
Kristin Frederickson and Gary Hilderbrand
- 506 **SlaveCity**
Atelier Van Lieshout
- 510 **EcoBox/Self-Managed Eco-urban Network**
atelier d'architecture autogérée
- 512 **Temporary Urban Scene:
Beach on the Moon**
Ecosistema Urbano

COLLABORATE

- 516 **Comfort and Carbon Footprint**
Alex Krieger
- 518 **Ecological Urbanism and Health Equity:
An Ecosocial Perspective**
Nancy Krieger
- 520 **Nature, Infrastructures,
and the Urban Condition**
Antoine Picon
- 522 **Sustainability and Lifestyle**
Spiro Pollalis
- 524 **Ecological Urbanism and the Landscape**
Martha Schwartz

- 526 **Old Dark**
John Stilgoe
- 528 **Religious Studies and Ecological Urbanism**
Donald K. Swearer
- 530 **Ecological Urbanism
and East Asian Literatures**
Karen Thornber

ADAPT

- 536 **Insurgent Ecologies:
(Re)Claiming Ground in Landscape
and Urbanism**
Nina-Marie Lister
- 548 **Performative Wood:
Integral Computational Design for
a Climate-Responsive Timber Surface
Structure**
Achim Menges
- 554 **Shrinking Gotham's Footprint**
Laurie Kerr
- 560 **Adaptivity in Architecture**
Hoberman Associates, Ziggy Drozdowski
and Shawn Gupta
- 568 **GSD RESEARCH**
**Climate Change, Water, Land Development,
and Adaptation: Planning with Uncertainty
(Almere, the Netherlands)**
Armando Carbonell, Martin Zogran, and Dirk Sijmons
- ## INCUBATE
- 572 **Balances and Challenges
of Integrated Practice**
Toshiko Mori
- 578 **The Luxury of Reduction:
On the Role of Architecture
in Ecological Urbanism**
Matthias Sauerbruch

- 584 **Bank of America**
Cook+Fox Architects
- 588 **GSD RESEARCH**
**A Place in Heaven, A Place in Hell:
Tactical Operations in São Paulo**
Christian Werthmann, Fernando de Mello Franco,
and Byron Stigge
- 590 **In Situ: Site Specificity
in Sustainable Architecture**
Anja Thierfelder and Matthias Schuler
- 598 **Progetto Bioclimatico**
Mario Cucinella
- 600 **Wangzhuang Eco-city of Agriculture**
Arup
- 606 **Ecosystemic Master Planning,
DISEZ Region, Senegal**
ecoLogicStudio
- 608 **Vegetal City: Dreaming the Green Utopia**
Luc Schuiten
- 610 **Verticalism (The Future of the Skyscraper)**
Iñaki Ábalos
- 616 **Urban Prototypes**
Raoul Bunschoten
- 622 **Taiwan Strait Climate Change Incubator**
Chora Architecture and Urbanism
- 629 **THE CITY**
Ian McHarg
- 630 **ECOLOGICAL URBANISM
CONFERENCE BLOG**

APPENDIX

- 642 **Contributors**
- 648 **Acknowledgments**
- 650 **Index**
- 654 **Illustration Credits**