

## Melanie Fessel

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### QUALIFICATIONS

Melanie is Director of Design, Terreform ONE and Faculty at ONE LAB. She is Managing Editor of Ecogram. Melanie was an Associate Fellow with the Cooper Union Institute for Sustainable Design. She worked as an architect with a focus on municipal buildings and master-planning in Spain, Switzerland, and New York City.

### EDUCATION

- 2010-11      **The Cooper Union for the Advancement of Science and Art**  
The Irwin S. Chanin School of Architecture, New York, NY.  
Master of Architecture II.
- 2005-06      **Universitat Politècnica de Catalunya**  
Escola Tècnica Superior d'Arquitectura de Barcelona, Spain.  
Socrates Erasmus Grant.  
The European Commission, Directorate-General for Education and Culture.
- 2002-08      **Technische Universität Berlin**  
School VI Planning-Building-Environment, Berlin, Germany.  
Master of Engineering, Diplom Ingenieur (Dipl.-Ing.).

### PROFESSIONAL

- 2006- present      **ONE Odyssey, New York/ Barcelona/ Berlin.**  
*Principal.*  
Interdisciplinary Research Initiative.
- 2007- present      **Terreform ONE (Open Network Ecology), Brooklyn, NY.**  
*Director of Design.*  
Non-profit Architecture Group for Smart Cities, Ecological Planning, and Art.
- 2013- present      **Ecogram, Brooklyn, NY.**  
*Managing Editor.*  
A series of conferences, events and publications that explores the intersecting issues of ecology and sustainable design, planning and development.
- 2009- present      **ONE Lab, New York School for Design and Science, Brooklyn, NY.**  
*Faculty.*  
An urban education center involved in the cross-pollination of knowledge within local communities.
- 2011- 2012      **Institute for Sustainable Design, The Cooper Union, New York, NY.**  
*Associate Fellow.*  
An organization that assists the Cooper Union in the exploration of sustainable architecture.

Professional continued

- 2006        **Binder Architektur AG, Winterthur, Switzerland.**  
*Architectural Designer.*  
Architecture and urban planning practice.
- 2004-06    **Xavier Tragant Arquitecte, Barcelona, Spain.**  
*Architectural Designer.*  
Architecture practice with focus in municipal development.
- 2002        **Trafo Buerogemeinschaft, Berlin, Germany.**  
*Designer.*  
Residential design development.
- 2001        **Gnädinger Architekten, Berlin, Germany.**  
*Designer.*  
Municipal design development.
- 1999        **Faro GmbH, Konstanz, Germany.**  
*Research Assistant.*  
Architecture and Real Estate Development.

ACADEMIC | RESEARCH

- 2009- present    **ONE Lab: NY School for Design and Science**  
New Lab, Brooklyn Navy Yard, NY.  
*Professor of Architecture.*  
Multidisciplinary Design Workshops.
- 2015        **Lawrence Technological University**  
College of Architecture and Design  
*Master Practitioner*  
Critical Practice Studio CRITPraX
- 2014        **Rensselaer Polytechnic Institute**  
School of Architecture, Troy NY.  
*Adjunct Professor.*  
Arch. Design Studio, Unlimited Pedagogy.
- CIEE (Council on International Student Educational Exchange)**  
Global Design and Architecture Program, New York, NY.  
*Senior Lecturer.*  
BioMaterials Workshop.
- 2012        **Global Design New York University, NY.**  
*Curatorial Director.*  
Exhibitions, London Design Festival, UK.
- 2011-12    **Institute for Sustainable Design**  
The Cooper Union, New York, NY.  
*Project Manager.*  
Lessons from Modernism: Environmental Design in Early 20th Century Architecture.  
Urban Planet: Emerging Ecologies.  
Bridging the Gap.

Academic/ Research continued

- 2011-12      **iGEM (International Genetically Engineered Machines) Conference**  
Genspace, NY.  
*Instructor.*  
*Project:* Gen2Seat - Genetic Generation Module.
- 2011            **Darmstaedter Architektursommer**  
Technische Universität Darmstadt, DE.  
*Workshop Instructor.*  
CREATURAMA | Urban E-Waste Bots for Ambient Information Display.
- 2003-08      **Technische Universität Berlin**  
Institute for Sustainable Planning and Urban Design, Berlin, DE.  
*Research Assistant.*  
Future North; Prof. Dr. Herrle, Prof. Berten.  
Department of Architecture and Urban History, Berlin, DE.  
*Research Fellow.*  
Deconstructivism in Europe; Prof. Kramer, Prof. Dr. Köllner.  
Department of Structural and Environmental Design, Berlin, DE.  
*Research Fellow.*  
Media Landscapes, California, USA; Prof. Kandel, T. Arnold.  
Department of Structural and Environmental Design, Berlin, DE.  
*Research Fellow.*  
Transfer: Architecture and Urban Landscapes, London, UK; Prof. Kandel.
- 2005            **Kunsthochschule Weissensee**  
Department for Sustainable Planning and Urban Design, Berlin, DE.  
*Research Fellow.*  
Urban Studies Program; Prof. Berten, Prof. Herrle, Prof. Dr. Nest.

EXHIBITIONS

- 2014            Venice Biennale, Official Selection 14th Int'l Architecture Exhibition, Palazzo Mora, IT.  
OfficeUS Outpost of the American Pavilion, Venice, IT.  
Design for Resilience, Boston Architectural College (BAC), McCormick Gallery,  
Boston, MA.  
VIA Festival International Exposition Micro/ Macro, at Maubeuge, Créteil, & Lille, FR.  
BBC Future Building Tomorrow Exhibit, Openhouse Gallery, New York, NY.  
Weltstadt Exhibition, DAZ Berlin, DE.  
Weltstadt – Who creates the city? Wyoming Building, Goethe-Institut, New York, NY.  
Southern Illinois University School of Architecture Gallery, Carbondale, IL.  
Another Green World, NYU Gallatin Galleries, New York, NY.  
Biofabricate, Gen2Seat, Microsoft Technology Center, New York, NY.
- 2013            The Metropolitan Museum of Art, Grace Rainey Rogers Auditorium, DJ Spooky, NY.  
The New Institute (NAI), Biodesign, Rotterdam NL.  
Onsite [at] OCAD Gallery, Terreform ONE, Toronto, ON.  
Scienceworks, Museum Victoria, Melbourne, AU.  
Alive/ Envie The Ultimate Design, Gen2Seat, Espace Fondation EDF, Paris, FR.  
IDEAS City, New Museum, New York, NY.  
Lower Manhattan Cultural Council, Governors Island Art Center, New York, NY.  
Smart City Expo World Congress, Terreform ONE, Barcelona, ES.  
AIANY 2013 Design Awards, Buenos Aires International Biennial of Architecture, AR.  
AIANY 2013 Design Awards, AIA Center for Architecture, New York, NY.

## Exhibition continued

- 2013 Lessons from Modernism, The Cooper Union Institute for Sustainable Design, NY.
- 2012 Rockefeller Innovation Forum, Skylight Soho, New York, NY.  
Cartographies of Hope, Gen2Seat, DOX Centre for Contemporary Art, Prague, CZ.  
Past Futures, Present, Futures, Storefront for Art and Architecture, New York, NY.  
GLOBAL Design, London Design Festival, The Building Centre, NYU London, UK.  
Design for the Real World REDUX, White Box Gallery, New York, NY.
- 2011 The Critical Moment: Architecture in the Expanded Field, The Cooper Union for the Advancement of Science and Art, New York, NY.  
EOYS - End of the Year Show 2011, The Cooper Union, New York, NY.  
GLOBAL Design "Elsewhere Envisioned", Gallatin, New York University, NY.  
TAB - Tallinn Architecture Biennale, Landscape Urbanism, City of Tallinn, EE.  
Design for the Real World REDUX, University of Applied Arts, Vienna, AT.  
Creatureama E-Waste Bots, Architektursommer Rhein-Main, Darmstadt, DE.  
Flash:Light, Mycoform Projection, New Museum, New York, NY.
- 2010 The Future of the Future, DOX - Center of Contemporary Art, Prague CZ.  
Imaginarium, Examples to Follow!, Uferhallen, Berlin, DE.  
Terreform ONE, East Coast Pavilion, Architectural Biennial Beijing, CN.  
Terreform ONE, Eric Arthur Gallery, University of Toronto, ON.
- 2009 Design Jazz: Improvisations on the Urban Street, Pratt Manhattan Gallery, NY.  
29 Chains to the Moon, Miller Gallery at Carnegie Mellon University, Pittsburgh, PA.  
Superlight, Museum Of Contemporary Art (MOCA), Cleveland, OH.  
Brooklyn Exchanges, Metropolitan Exchange Gallery, Brooklyn, NY.
- 2008 Green Architecture, Jaroslav Fragner Gallery, Prague, CZ.  
Badlands: New Horizons in Landscape, Future North, MASS MoCA, MA.  
Fragments of the Imagination, Future North, Miller Block Gallery, MA.  
01SJ Global Festival of Art on the Edge, Future North, Biennial, San Jose, CA.
- 2007 Future North, Foyer, TU Berlin, DE.
- 2004 Media Landscapes, Foyer, TU Berlin, DE.
- 2003 Media City, Transformations, U- Bahnhof Alexanderplatz, TU Berlin, DE.

## GRANTS | AWARDS | HONORS

- 2014 Architizer A+ Popular Choice Award, Architecture+Communication, Bio City Map, NY.  
BASF Corp. Co-Creation Commission, The Limitless Neighborhood, New York, NY.
- 2013 AIA New York Urban Design Merit Award, Resilient Waterfront Infrastructure, NY.  
The New Institute (NAI), Project Commission, Rotterdam NL.  
The Ontario College of Art and Design University (OCAD U), Art Commission, Toronto, ON.
- 2012 Feynman BioArt Grant: Research Funding for Art, Design, and Architecture projects involving biotechnology (BioArt).  
Gen2Seat: Genetic Generation Module, Terreform ONE.
- iGEM: International Genetically Engineered Machine Competition.  
Gen2Seat: Genetic Generation Module.

Grants/ Awards/ Honors continued

- 2012 Americas East Regional Jamboree, Bronze Medal.  
Victor J. Papanek Social Design Award.  
Austrian Cultural Forum NY, University of Applied Arts Vienna, MAD Museum NY.  
Azure AZ Award.  
Best Unrealized Concept Finalist: Urbaneering Brooklyn 2110. Terreform ONE
- 2010 Zumtobel Group Award for Sustainability and Humanity.  
Research and Initiative, Zumtobel Lighting Inc., Bregenz, AT.
- 2005 Socrates Erasmus Grant.  
The European Commission, Directorate-General for Education and Culture.
- 2003-04 International Research Fellowship.  
Department of Structural and Environmental Design, Technische Universität Berlin, DE.

LECTURES / PRESENTATIONS

- 2015 North Dakota State University, Keynote, Fargo, ND.  
NYC Promise, STEM Education Platform, Smart Cities, Program Director, NY.  
Smart Design, HS International Studies, Lecture, Brooklyn, NY.
- 2014 Bio-Architecture, Lecture, The Cooper Union, NY.  
NYC Promise, STEM Education Platform, Smart Cities, Program Director, NY.  
Global Design and Architecture Program, CIEE, Council on International Student Educational Exchange, Lecture, New York, NY.  
Future Cities, HS Scarsdale, Lecture, Scarsdale, NY.  
CELF Conference, Speaker and Panelist, Scarsdale, NY.  
Post Carbon City, Organizer, TU Berlin, DE.
- 2013 PechaKucha NYC Vol. 14, Makers and Shakers w/ Terreform ONE, Brooklyn NY.  
Earth Day, Hunter College ES, Keynote, New York, NY.
- 2012 Rockefeller Innovation Forum, Skylight Soho, Participant, New York, NY.  
ONE Lab, NY School for Design Science, Speaker, Brooklyn, NY.
- 2011 Columbia University, School of Architecture, Lecture, New York, NY.  
ONE Lab, NY School for Design Science, Speaker, Brooklyn, NY.

## AUTHORED PUBLICATIONS

- 2015 M. Fessel, M. Joachim, "Unlimited Pedagogy: New Experimental Spaces For Educating Designers", forthcoming.
- 2014 M. Fessel, M. Joachim, M. Aiolova, "Smart Cities – Smarter Citizens", Baukulturatlas, forthcoming.
- 2013 M. Joachim, M. Fessel, "Rethinking Urban Landscapes: Self-Supported Infrastructure, Technology and Territory," Cities for Smart Environmental and Energy Futures: Impacts on Architecture and Technology, Stamatina Th. Rassia, Panos M. Pardalos (eds.), Springer, pp 23-53.
- M. Joachim, M. Fessel, "Hackerspaces and the Act of Making," Volume #35 Everything Under Control, Brendan Cormier (ed.) pp. 132-5.
- M. Fessel, "Extraterritoriality Nexus", *Post Sustainability: Blueprints for a Green Planet*, M. Joachim, M. Silver (ed.), Metropolis Books/ D.A.P., *forthcoming*.
- I. Theocharopoulou, M. Joachim, "Ecogram: The Sustainability Question", M. Fessel (ed.), Columbia University GSAPP, *forthcoming*.
- M. Joachim, M. Fessel, "Hackerspaces and the Act of Making", Volume #35 Everything Under Control, Volume Magazine, Sticking Archis.
- 2012 M. Fessel, "A New Genealogy: Investigations On Cities Through Redefining Extraterritoriality in The Context of Ecology", Consilience Journal for Sustainable Development, Columbia University.
- M. Joachim, M. Fessel, M. Aiolova, "Urbaneering Utopia", ACSA Journal for Architectural Education.
- M. Joachim, M. Fessel, " Rethinking Urban Landscapes, Self-Suporrted Infrastructure, Technology and Territory", *Imagining the Future*, F. Gutierrez (ed.) BBVA publication.
- 2011 M. Joachim, M. Fessel, M. Aiolova, "Brooklyn Urbaneering," *Design for the Real World REDUX*, University of Applied Arts, Vienna, pp. 26-31.
- 2010 M. Joachim, M. Fessel, "Terreform ONE," *Future of the Future*, Jaroslav Andel (ed.) Center for Contemporary Art, DOX, Prague, CZ.
- 2008 M. Joachim, M. Fessel, "Profusion of Invention: eVolo Skyscraper Competitions," *Bauwelt*, May 9.

## PUBLICATIONS OF DESIGN WORK

- 2014 P. Anker, L. Harpman, M. Joachim. "Terreform ONE", *Global Design: Elsewhere Envisioned*, Prestel/ Random House, p.106-109.
- Jongh, Karlyn De. "Terreform ONE," *Time Space Existence: Made in Europe*, La Biennale di Venezia, Global Art Affairs Foundation, pp. 316-317.
- Simitch, Andrea and Val Warke. "Rapid Re(f)use, Terreform ONE," *The Language of Architecture: 26 Principles Every Architect Should Know*, Rockport Publishers, p. 63.

Publications of Design Work continued

- 2014 Lechner, Marie. "Micro Macro, world under the microscope," *Libération*, March 27.  
Claude, Carine. "Festivals VIA-EXIT 2014, release the pixel!," *Poptronics*, March 27.  
Bourbon Parme, Aude de. "Micro Macro, Exhibition VIA & EXIT," *Art Actuel*, April.
- 2013 Lasky, Julie. *The Beauty of Bacteria*, *The New York Times*, pp. D1, D7, Thur. Jan. 17.  
Riley, Ronnette and Karen Fairbanks. *Terreform ONE*, 2013 AIAA Design Awards, *Oculus*, Summer Vol. 75, Issue #2, p. 46.
- 2012 Thomas, Schroeffer, "Ecological Urban Architecture: Qualitative Approaches to Sustainability", *Birkhäuser Architecture*.  
Haas Tigran, "Sustainable Urbanism and Beyond", *Rizzoli*, New York.  
Nadia Amoroso, "Digital Landscape Architecture Now", *Thames & Hudson*.  
Ralf f. Broekman, Olaf Winkler, "New Forms of Knowledge," *build*, *Das Architekten Magazin*, 3/2012, pp. 34-41.  
Sandra Reyes, *Terreform ONE*, *Urbanengineering Brooklyn 2110*, *Código Magazine*, Aug.-Sep.#70, pp. 76-78.  
Celine Saraiva, *Le Futur De L'Architecture*, *Rapid re(f)use: waste to resource city 2120*, *Beaux Arts*, No. 333, March 2012, p. 73.
- 2011 Norbert Philipp and Karin Schuh, "Social Design: Eine bessere Welt auf Wien-Besuch", *Die Presse*, AT, Nov. 12, 2011.  
Avinash Rajagopal, "Collaborations Welcome," *Metropolis*, pp. 62-70.  
Jed Lipinski, "On Flatbush Avenue, Seven Stories Chock-Full of Ideas," *The New York Times*, Jan. 11.  
Andrea Wiegelmann, "Stadtfinden", *German Architects E-magazine*, DE.  
Lukas Feireiss, Robert Klanten (eds.), "*Utopia Forever: Visions of Architecture and Urbanism*", *Gestalten*, Berlin, pp.166-69.
- 2011 Adeline Seidel, *Baunetzwoche: Terreform in Darmstadt, Germany*, *Stadtfinden. Ein Architektursommer in Darmstadt*, Issue #228 pp.4-14
- 2010 "Zumtobel Award: Terreform ONE", *Topos*, p.8, Vol. 72.  
Friedeike Meyer, "Zumtobel Group Award," *Bauwelt*, Vol. 37.10, Oct. pp. 16-17.  
Caroline Korsawe, "Viewing the present through the future," *The Prague Post*.  
Carlo Aiello, "Cities of Tomorrow: Terreform ONE," *eVolo*, Vol. 03, Fall/Winter.  
Carlos Leite, "Cidades 2010 + 25," *aU Arquitetura & Urbanismo*, ANO 25, N. 197.  
Heather Smith, "Squeal Estate," *Harper's Magazine*, pp. cover, 21-23, May.

## Publications of Design Work continued

- 2010 Heather Smith, "Why No One Wants to Eat the Meat House," *Meatpaper*, Vol. 10, pp. 31-33.
- Terreform ONE, *Portfolio*, DAMDI Architectural Publishing, Seoul, KR, Vol. 5, pp. 896-911.
- K. Feireiss, L. Feireiss (ed.), *Architecture of Change 2: Sustainability and Humanity in the Built Environment*, Terrefuge, pp. 220-225, Gestalten, Berlin.
- 2009 Lukas Feireiss, Kristin Feireiss, "Architecture of change 2, Sustainability and Humanity in the Built Environment", Gestalten.
- Jürgen Weidinger , "Landschaftsarchitektur als Marke," *Redaktion Garten + Landschaft*, pp. 10-13, Sept.
- David Lepasca, "Sustainable cities are the solution", *Guardian UK*, Sunday 13 Sept.
- Stephen Rex Brown, "Avant-Garde Agriculture, Architecture Meet in B'klyn ," *Brooklyn Daily Eagle*, Aug. 19.
- Dan Avery, "Green Acre: A Hub of Eco-Friendly Entrepreneurs Grows in Brooklyn," *New York Post*, p.41, April 13th.
- 2008 Denise Markonish (ed.), *Badlands: New Horizons in Landscape*, MASS MoCA & MIT Press, pp. 114-116, 220.
- 2005 Arnold Thomas, Karsenty Claire, Grundei Paul, Knoess Elke, "Architektur Rausch: A Position on Architectural Design", JOVIS Verlag.

## LANGUAGES

German: Native.  
English: Proficient.  
Spanish: Advanced.  
French: Intermediate.  
Italian: Intermediate.