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TERRARIUM. EARTH DESIGN: ECOLOGY, ARCHITECTURE AND LANDSCAPE

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TERRARIUM. EARTH DESIGN: ECOLOGY. ARCHITECTURE AND LANDSCAPE

Silvia Mundula, Kevin Santus, Sara Anna Sapone

Terrarium collects research and reflections on the relationship between space, soil, vegetation and the biotic community, linked through the metaphor tion), Università luav di Venezia, Università of the terrarium. The book is curated by a research group from the Ph.D. program "Architectural Urban Interior Design". coordinated by Alessandro Rocca (Department of Architecture and Urban Studies at Politecnico di Milano), involved in the PRIN Sylva by the IUAV research unit.

PUBLISHER Mimesis Edizioni Piazza Don Enrico Mapelli. 75 20099 Sesto San Giovanni Milano - Italy www.mimesisedizioni.it

FIRST FDITION September 2024

ISBN 9791222311593

10.7413/1234-1234032

PRINTING Printed in September 2024 by Digital Team - Fano (PU)

FONTS Union, Radim Peško, 2006 JJannon, François Rappo, 2019

GRAPHIC LAYOUT bruno. Venezia

MAKING-UP Silvia Mundula, Kevin Santus, Sara Anna Sapone

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This volume was realised with Funds Mur-Prin 2017 (D.D. 3728/2017). The book is also available in open access at www.iuav.it/prin-sylva-prodotti.

Each volume in the series is reviewed by referees chosen from members of the Scientific Committee

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COLLANA SYLVA

Project of the Research Unit of Università luav di Venezia within the PRIN «SYLVA. Rethink the sylvan. Towards a new alliance between biology and artificiality, nature and society, wilderness and humanity». Call 2017. SH2. Research Units: Università degli Studi di Roma Tre (coordinadegli Studi di Genova, Università degli Studi di

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TERRARIUM AS A DESIGN METAPHOR

SILVIA MUNDULA KEVIN SANTUS SARA ANNA SAPONE

TERRARIUM AS A DESIGN METAPHOR A climate within a climate, a little world within a world. (Ward 1854, p. 11)

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The word *Terrarium* has many different meanings and interpretations. Its roots lie in the Latin word *Terra* (earth or ground), and earth constitutes its base layer. Its primary function is to create a self-sufficient ecosystem which sustains plants and other living beings. Indeed, a *terrarium* is designed to create and maintain a specific ecological state, which is self-contained and self-perpetuating. The history of *Terraria* begins with the story of the *Wardian case*, created in the 19th century by Dr Nathaniel Bagshaw Ward to nurture plants used for medical purposes, which were struggling to survive during the Industrial Revolution. The *Wardian case* was then used to transport vegetation, in particular the exotic plants which were discovered during geographical exploration. It worked as a

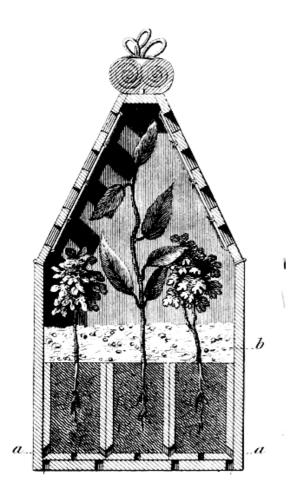
vehicle for environmental scrutiny in Victorian culture, the Wardian case married seductive visions of fertile growth with frank discussions of the human activities that put all vegetation at risk (Wells 2018, p. 168).

The concept of the *terrarium* as a structure which encloses an ecosystem, poses architectural challenges. In this regard, *terraria*, which are tools to sustain, transport and display rare species from faraway lands or different climates, can be interpreted as artifacts for observation and as spaces to nurture living forms which require particular growing conditions, as well as places for leisure.

As described in *On Wardian Cases for Plants and Their Applications*, the *terrarium* aims to

obtain, in short, in the isolation afforded by the glass covering, a climate within a climate, a little world within a world, in which, while their wants Box to protect plants during sea voyages. Drawing of the inside.

Image published in the paper by John Lindley, "Instructions for Packing Living Plants in Foreign Countries, Especially within the Tropics; and Directions for Their Treatment during the Voyage to Europe," Transactions of the Horticultural Society of London 5 (1824). Work under no copyright protection according to the Biodiversity Heritage Library.



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are satisfied, the plants enjoy an immunity from external disturbing influences (Ward 1854, p. 11). Terraria are protected space, as well as a miniature version of a specific environment or an architectural structure. They are both desirable ecosystems and structures in which nature is artificially grown and displayed. Therefore, the terrarium represents both the container and its content, as well as the relationship between these two elements. This allows us to link the terrarium to the idea of future nature (Gissen 2019), where the latter is interpreted as both a process and a space for interaction. The concept of terrarium as an object is replaced by the concept of terrarium as a metaphor of man's impact on natural ecologies. These hybrid ecologies display new ways to coexist for humans and other living beings and new forms of nature. By reflecting on the meaning of the terrarium, the contributions to this book show that man's understanding of nature is continually in flux, in both theory and practice. Indeed, this concept of terrarium leads to discussion – often both contradictory and oppositional - about the critical relationship between architecture and nature.

Architecture has often drawn inspiration from nature, as described by architectural critics such as Adrian Forty (2000), and has also used nature as a model to reinforce the authority of design choices (Whiston Spirn 1997). Nature's physical and atmospheric presence has also provided inspiration for the design and amplification of sensory experiences (Rahm 2023). However, in the final decades of the twentieth century, science has often been used to emphasise the supremacy of nature, paradoxically questioning its own role. Ian McHargh's *Design with Nature* (1969) undoubtedly changed the relationship between design and the natural environment, by introducing the subject of ecology.

Ecology not only took its place in the design world but also became a driving element for many designers, replacing, in a way, the role of nature (Whiston Spirn 1997). Furthermore, the increasing relevance of urban nature for ecology highlighted the potential interplay between spontaneous vegetation and spatial design (Kowarik 1991). This led to a different interpretation of the boundaries between the built and the unbuilt and to an interest in the inner dynamics of this in-between space. Architecture culture was also influenced by the identification of the environmental crisis – which was first mentioned in the seminal report *The Limit to Growth* (1972) – as well as by the recent recognition of climate breakdown. It showed how man has modified the precarious relationship between territory, climate and technology, by reshaping the geological strata of Earth and by playing with topographies, as discussed in Robotic Landscape (Girot 2022) and in *The Earth is an Architecture* (Trévelo, Viger-Kohler 2021). Also, the recent exhibition at the MoMA in New York, Emerging Ecologies. Architecture and the Rise of Environmentalism, explores the relationship between architecture and the environment with a focus on the rise of an ecological consciousness (Carson, 2023). Therefore, the terrarium can also be interpreted as an element of mediation between the space for life, the atmosphere, and Earth (Ingold 2021). It is evident that man's understanding of nature has become multifaceted and open to question, and so the terrarium itself appears to be a system which unveils not only desirable and endangered environments but also "the decay and the uncanny" (Morton 2007). The uncertainty underlying the cultural debate, which is a common thread running through every chapter in this book, results in the various critical

interpretations of the Terrarium.

ISLAND, MACHINES, BIOMES, WILDNESS, METAMORPHOSES

As part of the Prin Sylva series, *Terrarium* gathers diverse contributions which investigate the relationship between architecture and nature from multiple perspectives; through texts, drawings and photos. Some authors describe the *terrarium* in visual essays, documenting both designed and abandoned landscapes through photos and drawings. Other authors use the metaphor of the terrarium as a means to explore theories and projects, which range from the scale of the landscape to the scale of the building.

Terrarium has five sections which look at the metaphor of the terrarium from different perspectives: Islands, Machines, Biomes, Wildness and Metamorphoses.

Islands focuses on the notion of *terrarium* as an enclosed ecosystem, exploring portions of landscape and architectural constructions as isolated microcosms. The island is a metaphor for an enclosed space which is separated from the outside. The chapters in this section concentrate on the contrast between what stays inside and what is left out, both in domestic spaces and in the urban realm.

Machines looks at the terrarium as a system in which single elements reveal the whole. Nature is shaped by architecture and architecture is shaped by natural dynamics. The chapters in this section interpret the terrarium by looking at the tectonic as well as the typological resonance of land or vegetation.

Biomes highlights the relationship between entities within a certain environment, whether that is a small plot or the whole planet and overcomes the binary thinking that separates human beings from other forms of life. These biomes reveal the coexistence of different living and non-living beings, exploring their interaction and evolution. They are investigated not only from a human point of view but also from various Islands, Machines, Biomes, Wildness, Metamorphoses,
Photos by Sara Anna Sapone, Various locations
(Berlin, Amsterdam, The Hague, Almere, Venice), 2022-2023.









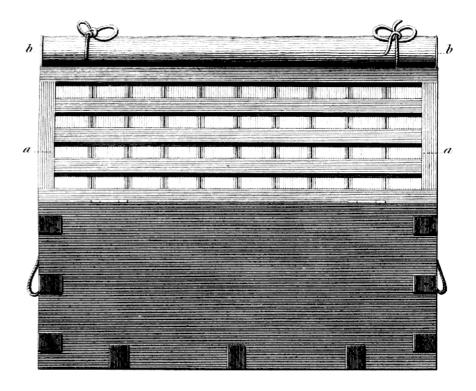


18 SILVIA MUNDULA, KEVIN SANTUS, SARA ANNA SAPONE other perspectives which focus on the relevance of the biotic community.

Wildness looks at how unpredictable natural dynamics can be, in spaces which seem to be enclosed by defined boundaries, either physical or conceptual. These natural dynamics create places which are unexpected *terraria*. Vegetation develops outside the rules, creating precious reserves for biodiversity and attractive spaces between the built and the unbuilt.

Metamorphoses defines the terrarium as a space where profound changes occur. In this sense, the contributions to the book are reflections on climate change, territorial alterations and reclamation processes, describing architecture as a space in continual transformation, growth and decay. Therefore, each contribution with its own concept of terrarium is a critical reflection on the relationships between ecology, architecture and landscape.

Box to protect plants during sea voyages. Drawing from the outside. Image published in the paper by John Lindley, "Instructions for Packing Living Plants in Foreign Countries, Especially within the Tropics; and Directions for Their Treatment during the Voyage to Europe," Transactions of the Horticultural Society of London 5 (1824). Work under no copyright protection according to the Biodiversity Heritage Library.



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Kevin Amendt is an independent researcher engaged in the study of underground guarries, their role in today's landscape and their preservation. Member of the "Studiegroep Onderaardse Kalksteengroeven". "vzw Hulpdienst Groeven" and founder of "Onderzoeksbureau MGL". he advises public and other organisations in the border re- compositional practice. aion Lièae (BE) - Limbura (NL/BE).

MARGHERITA AUTORINO

tient creative, third of four children. After classical high school, she enriched her university course with two years abroad, practicing drawing at FAUP in Porto and ecology at ENSP in the Master's Degree in Architectural Design at Versailles-Marseille, and on-site internships with Wagon-Landscaping and the Botanical Garden Senior Lecturer in Architectural Theory and Deof Rome. In 2023, she graduated with honors in partment Head of Equality, Diversity and Inclu-Architecture - Urban Design at Roma Tre, guided sion at Northumbria University, Newcastle. by A. Metta, presenting with C. Condemi Maglia Boscata, a landscape architecture thesis on the material and immaterial, microscopic and cos- Federico Broggini is architect graduated at Acmic geographies of the Magliana Stream.

ANNALISA AZZOLA

Annalisa Azzola is a marine ecologist and research fellow at University of Genoa. She fin-tude Platform for Urban Design and Research. In ished her PhD in Marine Science and Tech- 2022 he started a PhD in landscape architecture nologies in 2023. Her research topics include at RomaTre University. The thesis explores the characterization, monitoring, and assessment of the ecological status and change over time asphalt, investigating their intrinsic values and of coastal ecosystems. Part of her research potentialities in landscape design practices. also focuses on assessing local and global anthropogenic impacts. Her studies are based on scientific diving techniques, including visual field Thomas Cabai is an Italian architect and Ph.D. surveys and photographic sampling.

BEATRICE AZZOLA

Beatrice Azzola is an architect and academic researcher. She worked in several architecture firms in Italy, Portugal and Switzerland, In 2021 she started her PhD on Italian highway architecture and landscape. She also works on the odiversity Future Center and is currently working disciplinary interferences between architecture on several projects of Restoration Ecology and and ecology.

GINO BALDI

ena Comi, Vacuum Atelier, an architecture and ed the NGO "Save the Beach Maldives". Since design studio, winner of architecture awards for young architects and architecture competitions. He holds a doctorate in architectural composition communities and schools. In 2014 he started his (PoliMi - AUID) (2019 -), Participates in academic first coral restoration project. He led projects on conferences in Italy and abroad such as CA2RE Milan and Ljubljana (2020-21) and Conceptual Design of Structures in Zurich (2021). Workshop Urban regeneration and Industrial heritage EPFL Lausanne (2023)

MATTIA BALDINI

Mattia Baldini is an architect, founder and member of Fuoriformato Architettura, and PhD researcher in Architecture. Theories and Design (cycle XXXVIII, SSD: ICAR/14) at La Sapienza, University of Rome. He has conducted research in Italy (Florence, Rome) and abroad (ETSA in Seville). The main field of research application concerns the relationship between the theoretical pretexts of design and their applications in

NADIA BERTOLINO

Nadia Bertolino. PhD. is an architect, writer and educator concerned with ethical design practic-Born in Rome in 1997, curious explorer and pa- es in response to socio-spatial inequalities and environmental emergency. She is Assistant Professor in Architectural and Urban Design at the University of Pavia, Formerly, Nadia coordinated Sheffield School of Architecture and she was

FEDERICO BROGGINI

cademia di Architettura di Mendrisio. Since his early experiences he focused on urban and landscape design, in particular dealing with soil and water management concerns. He is part of Latiworld of urban soils, in particular sealed soils by

THOMAS CABAI

candidate at the Department of Architecture and Urban Studies (DAStU) at Politecnico di Milano, where he is also a teaching assistant in the Landscape and Infrastructure Design Studio, His main research interest lies within the relationship between ecology and built environment in anthropic territories. He is part of the National Bi-Phytoremediation in the Metropolitan City of Milan, Tuscany and Friuli Venezia Giulia.

CHIARA CARAVELLO

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Chiara Caravello is a PhD candidate in architecture in a double programme between the University of Liège (BE) and Politecnico di Milano (IT). out her research on underground quarries in the cross-border area of the 'Three Countries Park' in the Eureaio Meuse-Rhine (BE-NL-DE).

GIUI IA CAZZANIGA

Architect and researcher. Giulia Cazzaniaa holds a PhD in Landscape and Environment from Sapienza Università di Roma. Her research focuses on the impact of representation on the perception of landscape and its influence on the design Damiano Di Mele, architect, PhD candidate at Power focusing on the decommissioning of solar power plants and she is currently a research fellow at the Politecnico di Milano where she teaches Landscape Architecture design.

AMINA CHOUAIRI

Amina Chouairi is a PhD student in Urbanism at Università luav di Venezia and holds a Master of Science in Landscape Architecture from Delft University of Technology. Since 2019, she has been researching and working on the Venetian Lagoon complex transitional territory, exploring the debated relations among its cultures and natures. Crucial for her is the understanding of the Sara Favargiotti is Associate Professor at the marshes, i.e. the ignition point from which to rethink the Venice-in-a-lagoon system.

FELICE CIMATTI

Felice Cimatti teaches "Semiotica e teoria dei linguaggi" at the 'Università della Calabria.

PIETRO CONSOLANDI

Pietro Consolandi is a researcher and artist based in Venice, where he co-founded the Barena Bianca collective in 2018. He is a research fellow at THE NEW INSTITUTE Centre for Envi- Marco Ferrari is a researcher at the University ronmental Humanities (NICHE). Ca' Foscari University, inquiring about the possibility to implement the Rights of Nature in the Venetian Lagoon from a cultural point of view. He also collaborates project and partner and co-founder of the artistic with art and ecology foundation TBA21-Academy since 2020, where he develops various collaborative didactic initiatives as OCEAN / UNI Research Lead

CASSANDRA COZZA

Cassandra Cozza, architect, PhD, is Lecturer and Assistant Professor in Architectural and Urban Design at the Department of Architecture Andrea Foppiani is a PhD candidate in Architecand Urban Studies. Politecnico di Milano. Her research topics focus on contemporary paradigms of architectural and urban design studying changes with a design approach aimed at enhancing both spatial relationships and contexts. She is a member of the scientific editorial board of the magazines Territorio (Franco Angeli) and Ardeth (Rosenberg & Sellier).

SASKIA DE WIT

Saskia de Wit is landscape architect and assistant professor at the Section of Landscape Architecture, Delft University of Technology. She Awarded with a FNRS fellowship, she is carrying designs gardens and landscapes at her office Saskia de Wit tuin en landschap. Her research focuses on the garden as a core concept of the field of landscape architecture: the concept of the garden is used as a lens for further research into site-specificity, the sensory perception of place, urban landscapes, leftover spaces and urban forestry.

DAMIANO DI MELE

of future transformations. Recently, she has applied this reflection to the River Po basin. She is co-tutorship with the Universidad Politécnica de part of the research team financed by Enel Green Madrid (UPM). Graduated cum laude from the luav University of Venice after a period of training in Spain. His current research is focused on the analysis of themes related to the history and criticism of contemporary Spanish architecture in the relationship between figurativeness and structure. He participates in research activities in the GIPC group (Grupo de Investigación en Paisaie Cultural) at the Proyectos Arquitectónicos department of the Escuela Técnica Superior de Arquitectura de Madrid (ETSAM), where he has been a visiting doctoral researcher since 2022.

SARA FAVARGIOTTI

agency of the barene landscape - the brackish University of Trento, DICAM, Her research investigates the multiple identities of landscapes through applied research at different scales, focusing on fragile territories, emerging infrastructure, adaptive dynamics and regenerative design. Local coordinator of project B4R. Branding for Resilience (PRIN, 2020-2024), member of the Directive Board of IASLA (since 2018), she is co-founder and scientific advisor of the innovative startup RUMA S.r.I. SB.

MARCO FERRARI

of Trento, DICAM and adjunct Professor of Architectural Design Theory at the University of Ferrara. He is project leader of PaesaggiForti duo AIDEL. He is particularly interested in contemporary architectural and landscape theory and in revealing the relationship between bodies. ecologies and space, questioning concepts of domesticity and intimacy in both living environments and landscape.

ANDREA FOPPIANI

tural, Urban, and Interior Design from the DAStU department at Politecnico di Milano, where he graduated with honors in Sustainable Architecture and Landscape Design. His research focuses on post-logistics landscapes in the Po Valley, working through more-than-human ecologies to explore future hybrid scenarios. He is an academic tutor in design studios and is part of the Landscape Offfl Limits International Workshop's organization team.

HERMANO LUZ RODRIGUES

PhD researcher in Creative Technologies at the based in Milan (Italy). She is the founder of ar-University of Galway. He received a Master's in chitectural office Sabotage Practice. She is com-Design Studies degree from the Harvard Gradupleting a PhD in Architecture Interior and Urban ate School of Design, where he was a curator of Design at Politecnico di Milano, where she's also the GSD Kirkland Gallery. He has exhibited and collaborating in teaching activities. Bridging the published internationally as an artist and contrib-realms of architectural practice and academic uted to several technological art projects. In his practice, he mixes iconic cultural heritage with between space and technology. contemporary digital media to inspire participatory creative practices.

INA MACAIONE

Unibas, coordinates the Phenomenology of with the transformations of architecture, city and landscape in the process of ecological transition and Climate Change.

VALERIO MASSARO

Valerio Massaro is an architect and academic AA School (Projective Cities).

versity of Greenwich.

DAVIDE MONTANARI

Davide Montanari graduated with honors in Sustainable Architecture and Landscape Design from Politecnico di Milano where he is currently doing a PhD in Architectural, Urban, and Interior Design. His research focuses on the practices of Irene Pancrazi is a marine biologist specialising appropriation of water within the Po River Basin to unveil protocols of exploitation and investigate In 2016 she started to work for the NGO "Save future visions through the image of cyborg landscapes. He works as tutor in design studios and ing event in the Maldives and feeing the urge to is member of the Landscape Of[f] Limits Interna- take action. Since then, she was in charge of tional Workshop's organization team.

LAURA MUCCIOLO

design With Mies van der Rohe into a New World whole reef and see it thrive. (Neue Nationalgalerie) during the Hypercomfort SS by S. Bru (BRUTHER). In the year, she was guest curator with Michelangelo Pivetta and Giacomo Razzolini of the touring exhibition Isolario Venezia Sylva (curated by Sara Marini) at Dept. Paradiso (Libria, 2023).

SILVIA MUNDULA

Silvia Mundula is a PhD candidate at the Poin Milan, she gained a Master's degree in Histo- focused on Human Health and Sustainability. ry and Critical Thinking at the Architectural Association in London, where she developed her interest in the theory of gardens. Her research investigates the cultural principles and the design outcomes of contemporary wild oriented planting design in Europe.

VALENTINA NOCE

Hermano Luz is a designer from Brazil and a Valentina Noce is an architect and researcher research, her work delves into the intersections

RITA OCCHIUTO

Rita Occhiuto is Professor Director of the "Lab. Ville-Territoire-Paysage" within the Research Ina Macaione, associate professor at DiCEM Unit in Architecture at the Faculty of Architecture. University of Liège (BE). She is member of the Architecture Design course. She is scientific "PhD School in Architecture and urban planning" coordinator of the NatureCityLAB. Her research and of the Lepur "Research Center in Sciences is on the issues of urban regeneration, starting of City, Territory and Rural Environment" (University of Liège), and Founder Member of "UN-ISCAPE - European Network of Universities for the implementation of the European Landscape Convention"

ANDREA OLDANI

and a PhD candidate at the AA School of Archi- Andrea Oldani is an assistant professor of Landtecture. He holds a degree in architecture from scape Architecture at the Department of Archithe University of Florence and an MPhil from the tecture and Urban Studies at Politecnico di Milano, where he is faculty member of the School He taught Design and History and Theory in sev- of Architecture, Planning and Construction eral institutions, including London South Bank Engineering, He earned a Ph.D. in Architectural University, the Royal College of Art and the Uni- and Urban Design from the Department of Architecture and Planning. His researches on the landscape of contemporary infrastructure, are documented by a consistent number of scientific publications. Oldani curated seminars, exhibitions and editorial works.

IRENE PANCRAZI

in tropical environments and their restoration. the Beach Maldives", after witnessing a bleachthe set-up and the research protocol of various coral restoration projects. She collaborates with various Italian universities, tutoring students and Laura Mucciolo, architect, is Ph.D. st. in Archi-supporting scientific research, Today she is one tecture. Theories and Design, Sapienza Univer- of the project managers at the NGO and shares sity of Rome. In 2022, she exhibits the ephemeral the same dream as its founder: to grow back the

MARIANA PERFIRA GUIMARÃES

Mariana Pereira Guimarães is an architect-engineer from Brazil and PhD Candidate in Politécnico di Milano's Architecture. Urban and Interior of Architecture in Florence. She publishes Terzo Design program. Mariana was a Marie-Curie EID-ITN research fellow within the SOLOCLIM programme (ID 861119) studying innovative outdoor water-cooling solutions such as fountains and water mists that can respond to extreme urlitecnico di Milano and a garden designer. After ban heat. She received a Master's in Urban Plancompleting her Master's degree in Architecture ning and Public Health from Harvard University

MICHELANGELO PIVETTA

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versity of Venice, PhD and Associate Professor ber of architecture firm filoferro architetti. He is in Architectural Design in the Department of Ar- teaching tutor at the Department of Architecture chitecture of University of Florence. The field of of the University of Florence. He was a research application of the theoretical research is the pro- fellow at the University of Florence and Pavia for iect and its manifestation through the ephemeral projects dealing with different themes. In 2022. balance between technique, construction and he was quest curator with Michelangelo Pivetform. He writes essays and books addressing in ta and Laura Mucciolo of the touring exhibition parallel the didactic and professional activities Isolario Venezia Sylva (curated by Sara Marini) at as experimental opportunities for perennial and Dept. of Architecture in Florence. necessary verification.

MICHELE PORCELLUZZI

Michele Porcelluzzi is an architect and PhD can- of architecture and the Head, for the period didate in Architectural, Urban and Interior Design 2019-24, of the Ph.D. program of Architectural at DAStU, Politecnico di Milano, in collaboration Urban Interior Design (www.auid.polimi.it) at the with the National Biodiversity Future Center. His Department of Urban Studies of Politecnico di research interest is focused on the concept of collectiveness in architectural and urban design. He is a founding member of the research project Assume There's a Landscape. His research ac-biology and artificiality, nature and society, wiltivity has been published in journals including derness and humanity" and the Ca2re European OASE (2022) and Die Architekt (2023) and exhibited at IABR 2022 in Rotterdam.

CHIARA PRADEI

Chiara Pradel, PhD Arch, (Politecnico di Milano, 2022), is a Landscape Architect and Post-doc researcher at TU Delft, Faculty of Architecture and the Built Environment. Her research explores study the design transition facing climate fragilground movements originated by building activities and its impacts on the morpho-typological ities, mainly focusing on material culture, reuse aspects of the project. and circular baukultur. She lives and works between Milan (Italy) and Delft (Netherlands).

SARA PROTASONI

Sara Protasoni, Head of the M.Sc. in Sustainable Architecture and Landscape Design Politecnico di Milano - Piacenza Campus, is Full Professor of Landscape Architecture and member of the Board of the PhD Program in Landscape Architecture at La Sapienza University in Rome At the Politecnico di Milano she combines teaching Meanwhile, she worked in Milan-based architecwith an intense activity of design and theoretical research on landscape. She is the author of several monographs and over a hundred essays published in books and journals in the field.

ALESSANDRO RAFFA

Alessandro Raffa, architect PhD, is assistant professor PON R&I FSE-REACT EU at DICEM Unibas; member of NatureCityLAB and UNESCO Chair on Mediterranean Cultural Landscapes research groups. PhD at DAStU Politecnico di Milano, research fellow Sven-Ingvar Andersson at Benetton Foundation (2020) and post-doc re- of two Ph.D. titles. SJTU + PoliMi. in 2019, he searcher at DAD Politecnico di Torino (2021). He has been a visiting scholar at the BUCEA. The is currently Fulbright Visiting Scholar at Univer- core topic of his research covers architectural sity of Florida. College of Design, Construction strategies of revitalization in complex settlement and Planning and Florida Institute for Built Environment Resilience

GIACOMO RAZZOLINI

Michelangelo Pivetta, graduated from IUAV Uni- Giacomo Razzolini architect, founder and mem-

ALESSANDRO ROCCA

Alessandro Rocca is an architect, a professor Milano. His recent research develops within the program of national interest (PRIN) "SYLVA - Rethink the sylvan: Towards a new alliance between Consortium for design-driven research.

KEVIN SANTUS

Kevin Santus is an Architect. Research Fellow and Ph D, candidate at the Politecnico di Milano. (Italy) in Architecture, Urban, and Interior Design. He won an interdisciplinary grant (2020-2024) to

Besides he is a Research Consultant at the Brookfield Sustainability Institute in Toronto and contributor in DOMUSweb.

SARA ANNA SAPONE

Sara Anna Sapone is an Architect, Ph.D. candidate and Research Fellow at Politecnico di Milano. Here she was involved in teaching and research activities, such as the program G124 promoted by Renzo Piano on italian peripheries. ture firms, addressing urban renewal and architectural design. Since 2020, she's developing her doctoral research "Precision Wildland" within the AUID program at PoliMi and a research stay at the Landscape architecture section of TU Delft, funded by the Idea League Grant.

GERARDO SEMPREBON

Gerardo Semprebon, PhD architect, is Assistant Professor in architectural and urban design at the Department of Architecture and Urban Studies (DAStU) of the Politecnico di Milano. Holder systems, with specific focuses on Chinese and Italian cities and territories

GIULIA SETTI

Giulia Setti, architect, Ph.D., is an Assistant Professor of Architectural and Urban Design at Politecnico di Milano, Department of Architecture and Urban Studies. In 2022, she published a typological study of the stepwells in Ahmedabad, India. Her research focuses also on reusing industrial architecture. She worked In the Territorial Fragilities project led by DAStU – Department of Excellence 2018-2022. In 2014-2015, she developed research activities at CEPT University, Ahmedabad, India.

CHIARA TOSCANI

Chiara Toscani is an architect, educator and researcher based in London. She is currently a PhD candidate at the AA School in London in History and Critical Thinking in Architecture. She got her first PhD in Architectural and Urban Design at the Politecnico di Milano and was awarded a postdoctoral research fellow in 2010. She taught urban and architectural design at the Politecnico di Milano, tutored at AA Summer School and Ravensbourne University. Author of essays and books. For a decade, she worked as a senior architect at Cino Zucchi Architetti.

JO VAN DEN BERGHE

Jo Van Den Berghe, architect (Sint-Lucas School of Architecture 1984) with a critical reflective practice since 1986. PhD, RMIT University Melbourne 2012. Teaching experimental architectural design, KU Leuven Faculty of Architecture, where he is developing innovative drawings as the indispensable locus between Techné and Poiesis. Program director KU Leuven Faculty of Architecture 2017-2022. Visiting professor at Politecnico di Milano, EPFL Lausanne, Queen's University Belfast.

FRANCESCA ZANOTTO

Architect, PhD, she is Assistant Professor of Architectural Design at the Department of Architecture and Urban Studies of Politecnico di Milano, where she works on ecological implications of architectural design within the National Biodiversity Future Center. In 2021 and 2022 she was Research Fellow within the Integral Design Environment Research Infrastructure (Ir.ide) – Center for Publishing Actions and Research Development (Pard) at Università luav di Venezia, taking part in the scientific activity of national research PRIN "Sylva".

In the same serie

Sara Marini (a cura di), Nella selva. XII tesi, 2021.

Sara Marini, Vincenzo Moschetti (a cura di), Sylva. Città, nature, avamposti, 2021.

Alberto Bertagna, Massimiliano Giberti (a cura di), *Selve in città*, 2022.

Sara Marini, Vincenzo Moschetti (a cura di), Isolario Venezia Sylva, 2022.

Lacopo Leveratto, Alessandro Rocca (a cura di), Erbario. Una guida del selvatico a Milano, 2022.

Fulvio Cortese, Giuseppe Piperata (a cura di), *Istituzioni selvagge?*, 2022.

Sara Marini (a cura di), Sopra un bosco di chiodi, 2023.

Egidio Cutillo (a cura di), Bestiario. Nature e proprietà di progetti reali e immaginari, 2023.

Andrea Pastorello (a cura di), Selvario. Guida alle parole della selva, 2023.

Marco Brocca, Micol Roversi Monaco (a cura di), *Diritto e città "verde"*, 2023.

Luigi Latini, Lorenza Gasparella (a cura di), *Coltivare la selva*, 2023.

** Stamatina Kousidi (a cura di), Forest Architecture. In Search of the (Post) Modern Wilderness, 2024.

** Elisa Monaci, Toscanità. Le architetture di Vittorio Giorgini, 2024.

Luca Zilio, *La montagna di Ermenegildo Zegna*, 2024.

Giacomo Spanio, Spazio e società. La rivista di Giancarlo De Carlo tra progetto e prospettive, 2024.