

20th International Conference on Information Technologies in Landscape Architecture

Program Welcome to this years's DLA

Wednesday, May 22

Lyceum Schwabestraße 3, Marmorsaal (Gebäude 01, Raum 114), 06846 Dessau

09.00 -10:00 DLA Registration - Please sign up for the workshops

10.00 -17.00 Optional one day hands-on workshop

Workshop on DIGITAL GEODESIGN SYNTHESIS

State-of-the-art Geodesign case study on urban development Prof. Dr. Carl Steinitz, CASA/UCL and Harvard University, United States

Dr. Michele Campagna, University di Cagliari, Italy et al

see separate description for prerequisites

Room 004 Gebäude 8, Bauhausstr. 05 · 06846 Dessau

10.00 -17.00 Begin of optional integrated five day DLA Summer School Exploration in VISUAL IMPACT ASSESSMENT (3 credits ECTS)

Prof. Dr. James F. Palmer, T. J. Boyle Associates, Burlington, United States

Prof. Erich Buhmann, Anhalt University, Germany et al

see separate description for prerequisites

BAUHAUS AUDITORIUM and CANTEEN Gropiusallee 38, 06846 Dessau

16.00 - 18.00 DLA Registration in the foyer of the Bauhaus Auditorium - Please sign up for the workshops

18.00 - 21.00 **Public Lecture Bauhaus and Landscape Architecture**

> English/Deutsch - simultaneous translation Anhalt University in cooperation with BDLA

Public Prof. Dr. Sonja Dümpelmann, Harvard University, United States

Keynote The Bauhaus Out-of-Doors: Landscape Architecture,

the Avant-garde, and Its Legacy in 20th-Century Germany

Moderation Dr. Jörg Rekittke, Leibniz University Hanover, Germany

Music Susanne Haase, Saxophone, Leipzig

Dr. Werner Möller, Dessau Bauhaus Foundation, Germany Welcome Addresses Prof. Dr. Jörg Bagdahn, President Anhalt University, Germany

Prof. Fritz Auweck, Chairman International Affairs BDLA and

IFLA Delegate BAK (Federal Chamber of German Architects)

Prof. Heinz W. Hallmann, Landschaftsarchitekt BDLA Aachen, Germany Matthias Därr, Chamber of Architects, Saxony Anhalt, Germany

19.00 - 19.30 Panel with above-named guests

The Bauhaus and its Relevance in the Digital Age

19.30 - 21.00 Reception with International Student Band of Anhalt University

Registration for 4 days or for single events or integrated DLA Summer School

and further information at www.dla-conference.com

contact loel.dla@hs-anhalt.de







Hochschule Anhalt Anhalt University of Applied Sciences



20th International Conference on Information Technologies in Landscape Architecture

Thursday, May 23

08 00 - 09 00	DLA Registration in the foyer of the Bauhaus Aula - Please sign up for the workshops
00.00 05.00	DEA REGISTRATION IN THE TOYER OF THE DAUMAUS AGIA I TEASE SIGHT UP TO THE WORKSHOPS

09.00 - 09.15 Welcoming address by Prof. Dr. Elena Kashtanova, Dean, Department of Agriculture, Anhalt University

09.15 - 10.00 **Opening** Prof. Kathryn Moore, Immediate Past President of the International Federation of Landscape Architects

Keynote (IFLA) and Professor of Landscape Architecture at Birmingham City University, United Kingdom

Landscape Architecture Practice in Europe

Moderation *Prof. Dr. Matthias Pietsch, Anhalt University, Germany*10.00 - 10.30 Coffee Conference group picture taken in front of the Bauhaus
10.30 - 12.00 Session 1 Landscape: Informed by Science, Shaped by Design

Moderation Dr. Stephen Ervin, Harvard University and Dr. Jörg Rekittke, Leibniz University, Hanover, Germany

Landscape: Informed by Science, Shaped by Design - Introduction

Prof. Aidan Ackerman, ESF Syracuse. N.Y., United States

Computation and Visualization of Coastal Sea Level Rise Mitigation Strategies: Digital Applications of

Scientific Data to Formulate Design Workflows for Climate Change Dr. Ata Tara, Royal Melbourne Institute of Technology, Australia

Towards Managing Visual Impacts on Public Spaces: A Quantitative Approach to Studying Visual Complexity

and Enclosure Using Visual Bowl and Fractal Dimension
Dr. Joseph Claghorn, University of Sheffield, United Kingdom

Algorithmic Design in Indeterminate Landscapes: a case study in an informal settlement in Medellin, Colombia

12.00 - 13.00 Lunch

Session 2 Analog and Digital Landscape Architecture

13.00 - 14.00 **Keynote** *Prof. Dr. Carl Steinitz, CASA/UCL and Harvard University, United States*

Landscape Architecture from Analog to Digital: A Personal Perspective

Moderation Dr. Jörg Rekittke, Leibniz University Hanover, Germany

14.00 - 15.30 Parallel lecture Dr. Agnès Patuano, University of Edinburgh, United Kingdom

Investigating Landscape Preference Using Fractal Geometry

Dr. Madeline Brown, University of Florida United States

ILAS: Intrinsic Landscape Assessment System for Landscape Design and Planning in the National Capital Region

Marcel Bilurbina, Sergi Abellan, Marilena Christodoulou, AELAND, Spain

Landscape Design Methodology: Pattern Formation Through the Use of Cellular Automata

Tianyi Zhao, Southeast University, Nanjing, China

Researching on the Tidal Flooding Through the Coastal Simulation: Developing Potential Managed

Realignment Areas of Humber Estuary in England

14.00 - 15.30 Parallel 1.5 hour workshop:

WS 2A: Lands Design: landscaping design tools for Rhino — Francesc Salla a. Anna Villafañe, Asuni, Barcelona, Spain

15.30 - 16.00 Coffee Please hand in your food preference for the Friday conference dinner

16.00 - 17.30 Parallel lecture Session 3: Presentations on the theme Geodesign

Moderation Dr Michele Campagna, Università di Cagliari, Italy

Dr. Jörg Rekittke, Leibniz University Hanover and Philip Paar, Laubwerk, Berlin, Germany

Experience of a Genuine Geodesign Act

Timothy Murtha, Luwei Wang, University of Florida, United States

Historical Analysis of Land Use Change and Geodesign of Rapid Urbanization: Orlando, Florida, USA

Prof. Brian Orland, University of Georgia, United States

Improving our Global Infrastructure: The International Geodesign Collaboration

Zihao Zhang, University of Virginia, United States (via Video and Internet)

The Future of Artificial Intelligence (AI) and Machine Learning (ML) in Landscape Design: A Case Study in

Coastal Virginia, US

16.00 - 17.30 Parallel 1.5 hour workshop: WS 3: Augmented Reality for Landscape Design – Prof. Dr. Matthias Pietsch, Daeyong Kim,

Pool 2 in G.02 Mathias Feimer, Susanne Raabe, Anhalt University, Germany

19.00 - 20.00 **Public** *Prof. Dr. Mike Batty, CASA, The Bartlett, University College London, United Kingdom*

Keynote Networks in Design: Resolving Conflicts and Reaching for Optimality in City Planning

Moderation Sairah Badar, Anhalt University, Germany

20.00 Reception in Bauhaus canteen with World Melange from Bernburg



20th International Conference on Information Technologies in Landscape Architecture

Friday, May 24 Focus: BIM IN LANDSCAPE ARCHITECTURE

Audimax and Room 005 Gebäude 8, Bauhausstr. 05 · 06846 Dessau

09.00 - 10.00 Keynote Prof. Sarah Williams, MIT School of Architecture and Planning, United States

Data | Action: Build It! Hack it! Share It | English/Deutsch - simultaneous translation

Moderation Prof. Dr. Rudolf Lückmann, Vice President Anhalt University, Germany

10.00 - 10.30 Coffee break Expo, Poster Exhibition

10.30 - 12.00 Parallel lecture

Session 4 BIM for Landscape – State of the Art | English/Deutsch - simultaneous translation

Moderation Prof. Dr. Andreas Thon, Hochschule Geisenheim University, Germany

Audimax Aleander Peters, Hochschule Geisenheim University, Germany

Best Practises and First Steps of Implementing BIM in Landscape Architecture and its Reflection of Necessary

Workflows and Working Processes

Matthias Funk, Scape, Germany

How to BIM - Workflows in Landscape Architecture

Dr. rer. nat. Johannes Gnädinger, PSU Munich, Germany

The BIM Lifecycle in Environmental and Landscape Planning

10.30 - 12.00 Parallel lecture

Session 5 Smart Cities and Smart Regions

Moderation Prof. Brian Orland, University of Georgia, United States

Room 005 Dr. David L. Tulloch , Rutgers University, United States

Geohealth Meets Geodesign: The Multidisciplinary Challenges of Informing the Regional Design Studio with

Human Health Research

Günter Gruber, RSA iSPACE Salzburg, Austria

Indicator-based Landscape Assessment Matrix for Defining Land Use Priority Zones in the Salzburg FUA

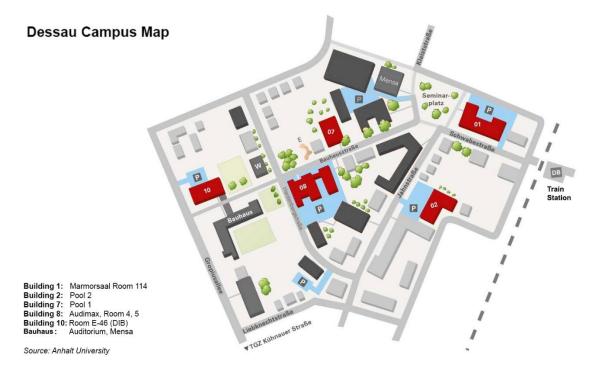
Thomas Machl, Technische Univerität München TUM, Germany

Planning Agricultural Core Road Networks based on a Digital Twin of the Cultivated Landscape

Dr. Siqing Chen, The University of Melbourne, Australia

Spatial Aggregation and Renewable Energy Landscape Planning: A Case Study in Victoria

12.00 - 13.00 Lunch, Expo



Friday, May 24 (cont.)

13:00 - 14.30 Parallel lecture

Session 4 (cont.) BIM for Landscape – Future Development

| English/Deutsch - simultaneous translation

Moderation Prof. Dr. Stephen Ervin, Harvard University, United States
Audimax Mike Shilton, Landscape Institute, United Kingdom

Digital Transformation in Landscape Design using BIM Processes

Dr. Andreas Carstens, Esri

BIM & GIS - new dimensions of improved collaboration for infrastructure and environment

Eric Gilbey PLA ASLA. Vectorworks

Using Landscape BIM to Meet Site Design Requirements

13:00 - 14.30 Parallel lecture

Session 6 Point Cloud Applications in Landscape Architecture

Moderation Prof. Pia Fricker, Aalto University, Finland
Room 005 Dr. Ulrike Wissen Hayek, ETH Zurich, Switzerland

Preparing 3D Point Clouds as Stimuli for Landscape Preference Studies: Lessons Learned

Jozef Sedláček, Radim Klepárník, Mendel University, Czech Republic

Testing Dense Point Clouds from UAV Surveys for Landscape Visualizations

Drew Hill, Utah State University, United States

How Virtual Reality Impacts the Landscape Architecture Design Process during the Phases of Analysis and

Concept Development at the Master Planning Scale Verena Vogler, Bauhaus University Weimar, Germany

High-Resolution Underwater 3D Monitoring Methods to Reconstruct Artificial Coral Reefs in the Bali Sea: A

Case Study of an Artificial Reef Prototype in Gili Trawangan

13:00 - 14.30 Hands-on Workshops (parallel)

DIB Room E-46 WS 4A: Workshop Landscape Architecture and BIM - Dr. Ilona Brückner Hochschule Osnabrück (German)

WS 5A: BIM – Workshop with Vectorworks – Achim Hoffman-Brüning COMBRIO

Pool 1 - Geb 7 WS 6: Digital Workflows for 3D planning in landscape architecture — Esri

14.30 - 15.00 Coffee Break, Expo – Please hand in your vote on the posters

15.00 - 16.30 Parallel lecture

Session 7 Algorithmic Landscapes

Moderation Dr. Ulrike Wissen Hayek, ETH Zurich, Switzerland Room 005 Ilmar Hurkxkens, ETH Zurich, Switzerland

Computational Terrain Modeling with Distance Functions for Large Scale Landscape Design

S. Elif Serdar, Istanbul Technical University, Turkey

Generative Landscape Modeling in Urban Open Space Design: An Experimental Approach

Prof. Pia Fricker, Aalto University, Finland

Structuralism: Patterns of Interaction Computational Design Thinking across Scales

Philipp R.W. Urech, Swiss Federal Institute of Technology, Switzerland

Point-Cloud Modeling: Exploring a Site-Specific Approach for Landscape Design

15.00 - 16.30 Hands-on Workshops (parallel)

DIB Room E-46 WS 4B: Workshop Landscape Architecture and BIM – Dr. Ilona Brückner, Hochschule Osnabrück (English)

Room 004 WS 5B: BIM – Workshop with Vectorworks – Achim Hoffman-Brüning COMBRIO, Germany

16.30 - 17.00 Final Panel Discussion on

Future of BIM in Landscape Architecture

17.00 - 18.30 Guided Bauhaus Tour with Jeanne Colgan

19:30 - 22.30 Conference Dinner at Kornhaus Dessau: DLA Awards, Bernburg Jazz Ensemble JAZZONANZ

Please see our vendors at the Expo, Foyer Gebäude 8

Anhalt University with Master of Landscape Architecture MLA and Online-Master Geoinformationssysteme (beMasterGIS), Asuni, BDLA, Esri Deutschland, Landscape Institute, Laubwerk, Vectorworks, VirtualcitySYSTEMS a.o.



20th International Conference on Information Technologies in Landscape Architecture

Saturday, May 25

Audimax, Room 005 Gebäude 8, Bauhausstr. 05 · 06846 Dessau

09.00 - 09.40 **Keynote** *Prof. Dr. Mintai Kim. Virginia Tech, United States*

Geodesign: Common Language of Design and Planning Teaching and Research

Moderation Ruben Joye, University College Ghent, Belgium

09:40 – (... 10.00) 3-minute presentations - Presentation of winning posters

10.00 - 10.30 Coffee

10.30 - 12.00 Parallel lectures

Session 8: Augmented Reality (AR), Virtual Reality (VR) and Immersive Displays in Landscape Design

Moderation Prof. Hope H. Hasbrouck, The University of Texas at Austin, United States

Audimax Prof. Dr. James F. Palmer, T. J. Boyle Associates, Burlington, United States

The Best Paper Format and Viewing Distance to Represent the Scope and Scale of Visual Impacts

Ana Moural, Norwegian University of Life Sciences, Aas, Norway User Experience in Mobile Virtual Reality: An On-site Experience Dr. Adam Tomkins, The University of Sheffield, United Kingdom

Tracking Visual Engagement in Mixed Reality: A Framework for analyzing interaction with Digital Models

Seungmin Noh, Seoul National University, South Korea

How Useful are Virtual Reality Simulations to the Field of Crime Prevention Through Environmental Design?

- A Case Study

10.30 - 12.00 Parallel lectures

Session 9: Teaching Digital Landscape Architecture

Moderation Prof. Dr. Elke Mertens, Hochschule Neubrandenburg, Germany
Room 005 Prof. Dr. Ulrich Kias, Weihenstephan-Triesdorf University, Germany

"Open Street Map" as a Problem Based Learning Project: Opportunities to Use and Contribute to the Free

Map of the World

Prof. Dr. Benjamin H. George, Utah State University, United States

Teaching and Learning Software in Landscape Architecture: A Survey of Software Use Amongst Faculty and

Students

Prof. Dr. Matthias Pietsch, Anhalt University, Germany

Analyzing Ecosystem Services in Armenia Using ArcGIS Online: A Case Study of the Geghard Monastery and

the Kotayk Province

14.00 - 15.30 Parallel 1.5 hour workshop:

Room 004 WS 2B: Lands Design: landscaping design tools for Rhino - Francesc Salla a.Anna Villafañe, Asuni, Barcelona, Spain

12.00 - 12.30 Coffee, Snacks

12.30 - 13.30 Session 8 Augmented Reality (AR), Virtual Reality (VR) and Immersive Displays in Landscape Design (cont.)

Moderation Prof. Dr. James F. Palmer, T. J. Boyle Associates, Burlington, United States

Audimax Ruben Joye, University College-Ghent, Belgium

Exploring the World of Children and Teenagers in a 360° Virtual Environment

Medria Shekar Rani, University of Sheffield, United Kingdom

An Iteractive Landscape Planning Process for Sustaining Flood Regulation in the Ci Kapundung Upper Water

Catchment Area, Bandung Basin, Indonesia

13.30 Closing Panel – Dr. Stephen Ervin: Introducing DLA 2020 at GSD, Harvard, United States June 1-3, 2020

14.00 Option 1/2 Day Wörlitz
Bicycle Excursion Landsca

Wörlitz Garden and Bauhaus Dessau with Uwe Merz, Landscape Architect Dessau and Jeanne Colgan

14.00 - 17.00 Room 004 Option DLA Summer School VIA (cont.)

20:00 Evening Meeting at Tobi or not ToBe / Heilmann-

Restaurant, Dessau



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