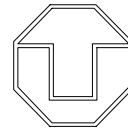


Fakultät Architektur
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TECHNISCHE
UNIVERSITÄT
DRESDEN

Report on the research stay in the USA 26 February – 21 May 2001

Massachusetts Institute of Technology in Cambridge, Massachusetts
Ohio State University in Columbus, Ohio,
University of California in Berkeley, California

Research Topic: Fundamentals of Planning and Design Methods in Architecture – Analysis and Further Development of Planning and Design Methods Illustrated by the Example of Complex Buildings for Social Services and Healthcare Facilities

Please contact:

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Acknowledgements

First of all, I would like especially thank the DFG Deutsche Forschungsgemeinschaft (German Research Council), represented by Dr Juergen Hoefeld: The DFG supports financially the research project running since May 2000 as well as the eight-week research stay in England in Summer 2000 and the twelve-week stay in the USA in spring 2001.

In addition, I would like to thank very much the following people who supported the preparations for my research stay:

Professor Hans Haenlein, London, UK
Professor Gunter Henn, München & Dresden, Germany
Professor Ralph Johannes, Essen, Germany
Rachael Luck, University of Reading, England, UK
Professor Hajo Neis, Eugene/OR, USA; Dresden, Germany
Professor Stefan Popov, Sofia, Bulgaria
Professor Heinzpeter Schmieg, Dresden, Germany
Professor Ralf Weber, Berkeley/CA, USA; Dresden, Germany

Updated abstract of the research project

The project "Fundamentals of Planning and Design Methods in Architecture – Analysis and Further Development of Planning and Design Methods Illustrated by the Example of Complex Buildings for Social Services and Healthcare Facilities" focuses on the question "How can architects develop systematically goal-oriented architectural solutions in the complex field of buildings for social services and healthcare facilities?" The aim is to develop a planning and design method that supports any architect while planning and designing complex buildings. In addition, teachers can use the method as a teaching basis and researchers as a discussion basis. The starting point consists of two models – the issue model and the process model – for developing obligatory criteria for planning and design methods. These models are the basis for the comparative analysis of well-known planning and design methods and consequently for the deduction of general requirements for future planning and design methods. Finally, the method developed is to be examined empirically in terms of its applicability in practice, teaching and further research. Since the general approach of the project is process-oriented as well as result-oriented, this examination is to be process-oriented and result-oriented, too.

Research stay in the USA – Spring 2001

The research institutions visited were chosen in regard to their relevance to the project. I visited institutions and people with a particularly *wide* field of interest with regard to a methodological architecture planning and design process. In addition, it was important for me to meet people working in other design disciplines than architecture as well.

The visited hospitals belong to the best 173 hospitals in the US. The latest ranking was published in the magazine "US News and World Report". The ranking is also published online, updated on 2/9/01:

<http://www.usnews.com/usnews/nycu/health/hosptl/tophosp.htm>.

This report is meant to answer the following questions:

- Where have you been?
- Whom have you met?
- What are their fields of interest?
- What have you been talking about?

Detailed aspects of the discussion will be found in the forthcoming project publication.

Duration **26 February 2001 – 21 May 2001** **(12 weeks altogether)**

Work in **Cambridge MA**
26 February 2001 – 13 April 2001 **(7 weeks)**

Gunter Henn

(Architect and professor of architecture of buildings for trade and industry also working with Bill Porter/MIT and Tom Allen/MIT; discussion about design methods in architecture and the general structure of the project)

Technische Universität Dresden, Deutschland

http://www.arch.tu-dresden.de/seiten/ind_gew/ind_gew.htm;

Henn Architekten, München, Berlin, Dresden, Deutschland

<http://www.henn.de/>

Bill (William Lyman) Porter

(Professor of architecture; discussion about design methods in architecture and the detailed structure of the project)

Department of Architecture, MIT Massachusetts Institute of Technology, Cambridge, Massachusetts

<http://architecture.mit.edu/welcome.html>

<http://architecture.mit.edu/people/profiles/prporter.html>

Paul Keel

<http://destech.mit.edu/keel/>

Tom (Thomas J.) Allen

(Professor of management; discussion about work environments and some particular aspects the structure of the project)

Sloan School of Management, MIT Massachusetts Institute of Technology, Cambridge, Massachusetts

<http://mitsloan.mit.edu/>

Library of the Department of Architecture, MIT Massachusetts Institute of Technology, Cambridge, Massachusetts

Public Library, Cambridge, Massachusetts

Visits **Brigham and Women's Hospital**, 75 Francis Street, Boston, MA 02115

<http://www.brighamandwomens.com/>

Children's Hospital, 300 Longwood Avenue, Boston, MA 2115

<http://www.tch.harvard.edu/>

Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114

<http://www.mgh.harvard.edu/>

Research Travel 13 April 2001 – 29 April 2001 (2 weeks altogether)	
New York NY	
Visits	Memorial Sloan-Kettering Cancer Center , 1275 York Avenue, New York, NY 10021 http://www.mskcc.org/ New York Presbyterian Hospital , 525 E. 68th Street, New York, NY 10021 http://www.nyp.org/
Philadelphia PA	
Visits	Children's Hospital of Philadelphia , 34th St & Civic Center Blvd., Philadelphia, PA 19104 http://www.chop.edu/index.html Fox Chase Cancer Center , Philadelphia, 7701 Burholme Avenue, Philadelphia, PA 19111 http://www.fccc.edu/ Hospital of the University of Pennsylvania , 3400 Spruce Street, Philadelphia, PA 19104 http://www.med.upenn.edu/
Washington DC	
Library of Congress http://www.loc.gov/	
Visits	Children's National Medical Center , 111 Michigan Avenue, N. W., Washington, DC 20010 http://www.dcchildrens.com/ Georgetown University Hospital , 3800 Reservoir Road, N. W., Washington, DC 20007 http://www.georgetown.edu/
Pittsburgh PA	
Ömer Akin (Professor of Architecture; discussion about the process-oriented and the result-oriented evaluation of the planning and design process) School of Architecture, Carnegie Mellon University, Pittsburgh, Pennsylvania http://www.arc.cmu.edu/	
Visits	Allegheny General Hospital , 320 E. North Avenue, Pittsburgh, PA 15212 http://www.allhealth.edu/ Children's Hospital of Pittsburgh , 3705 Fifth Avenue, Pittsburgh, PA 15213 http://www.chp.edu/

Work in Columbus OH
22 April 2001 – 27 April 2001

(about 1 week)

Heike Goeller

(Professor of interior design; discussions about the solution of particular scientific problems as e.g. the empirical examination of the quality of a process)

Department of Industrial, Interior, and Visual Communication Design, The Ohio State University, Columbus

<http://www.arts.ohio-state.edu/design/>

http://www.arts.ohio-state.edu/design/design_new/are_facultyIS.html

Reinhart Butter

(Professor of product design; discussion about the general scope of the project)

Department of Industrial, Interior, and Visual Communication Design, The Ohio State University, Columbus

<http://www.arts.ohio-state.edu/design/>

http://www.arts.ohio-state.edu/design/design_new/are_facultyID.html

Liz Sanders

Company Sonic Rim, 1086 N. 4th Street, Columbus, OH 43201

(Interdisciplinary company that created a new type of research by supporting clients getting creative: SonicRim merges the disciplines of design, market research and consumer behavior, anthropology, human factors, and psychology; discussion about their proceeding and the possibility to transfer their knowledge into a systematic architectural design process)

<http://www.sonicrim.com/>

Trudy A. Cherok (Environmental Graphic Designer) and **Peter S. Williams** (Senior Associate, Environmental Graphic Designer; discussion about the proceeding during lectures and the design studio at the Ohio State University)

Company NBBJ, 1555 Lake Shore Drive, Columbus, OH 43204

(Architecture, Design, Planning)

www.nbbj.com

Company Design Central, 6464 Presidential Gtwy, Columbus, OH 43231-7673

(Product Designers, discussion about a wide field of aspects of a systematic design)

www.design-central.com

Visits

Arthur G. James Cancer Hospital, 300 West 10th Avenue, Columbus, OH 43210

<http://www.jamesline.com/>

Children's Hospital, 700 Children's Drive, Columbus, OH 43205

<http://www.childrenscolumbus.org/>

Ohio State University Medical Center, 410 W. 10th Avenue, Columbus, OH 43210

<http://www.osumedcenter.edu/>

Cincinnati OH

Wolfgang F. E. Preiser

(Professor of architecture and Director of Research for ARC Architectural Research Consultants; discussion about aspects of the evaluation of the design process and the architectural solution)

DAAP College of Design, Architecture, Art, and Planning, University of Cincinnati, Cincinnati, Ohio

<http://www.uc.edu/colleges/daap/overview.html>

<http://www.swcp.com/arc/>

Chicago

Visit

University of Chicago Hospitals, 5841 S. Maryland Avenue, Chicago, IL 60637

<http://www.uchospitals.edu/>

Work in	Berkeley CA 29 April 2001 – 21 May 2001	(3 weeks)
	Edward Arens (Professor of architecture; discussion about environmental aspects of the planning and design process, and about the structure of the approach "design control") UCB University of California in Berkeley, California http://arch.ced.berkeley.edu/	
	Galen Cranz (Professor of architecture; discussion about "workspheres") UCB University of California in Berkeley, California http://arch.ced.berkeley.edu/	
	Doe Library (Main Library) at UCB University of California in Berkeley, California	
	Moffit Library (Environmental Studies Library) at UCB University of California in Berkeley, California	
	Anne-Cathrin Schulz and Lothar Maier (Architects, partly working in the field of healthcare buildings; discussion about architectural practice in the USA) Company SOM Skidmore, Owings & Merrill LLP, One Front Street, Suite 2500, San Francisco, CA 94111 (Architecture, Engineering, Planning, Interior Design, Graphics) http://www.som.com/	
	George Tingwald (Director of Healthcare Design; discussion about healthcare buildings and about planning and designing of healthcare buildings in the USA, information about institutions for healthcare architects in the USA) Company SOM Skidmore, Owings & Merrill LLP, One Front Street, Suite 2500, San Francisco, CA 94111 (Architecture, Engineering, Planning, Interior Design, Graphics) http://www.som.com/	
	Hans-Christoph Haenlein and Banny Banerjee (Product designers; participation at a brainstorm for a walking aid for disabled children, discussion about the general scope of the project and about detailed aspects with regard to the differences between architectural and product design) Company IDEO Palo Alto, 700 High Street, Palo Alto, CA 94301 (Design Services, Product Design) http://www.ideo.com/	
	Barry Katz (Director of the "IDEO University", information about the work of the IDEO University) Company IDEO Palo Alto, 700 High Street, Palo Alto, CA 94301 (Design Services, Product Design) http://www.ideo.com/	
	Bill Rostenburg (Architect, AIA Principal; discussion about detailed aspects of healthcare design) Company SmithGroup, 225 Bush St Fl 11, San Francisco, CA 94104-4250 (Planning, Design, Management) http://www.smithgroup.com/	
	Joyce Polhamus (Architect, AIA Associate; discussion about detailed aspects of healthcare design and of the design of buildings for social services, in particular for the elderly people) Company SmithGroup, 225 Bush St Fl 11, San Francisco, CA 94104-4250 (Planning, Design, Management) http://www.smithgroup.com/	

Visits	Kaiser Foundation Hospital , 2425 Geary Boulevard, San Francisco, CA 94115 http://www.kff.org/ http://www.kp.org/ http://www.ca.kaiserpermanente.org/ University of California, San Francisco Medical Center , 500 Parnassus, San Francisco, CA 94143 http://www.ucsfhealth.org/hospital/#ucsf
Preparation and submission of a paper for a conference during my stay in the USA	
Conference	with the title "Value Through Design" will take place on 14-15 September 2001 in Reading, England/UK at The University of Reading, organized by CIB W96 Architectural Management & DRS The Design Research Society
Abstract	with the title "Value through design control" was submitted on 1 April 2001
Acceptance	of the abstract was received on 4 April 2001
Paper	with the title "Value through design control" was submitted on 1 June 2001
Contacts	owing to my visit of the conference "CoDesigning" in Coventry which was also sponsored by the DFG in Summer 2000 that were particularly stimulating for the conference paper: Heike Goeller Department of Industrial, Interior, and Visual Communication Design, The Ohio State University, USA Rachael Luck Inclusive Environments Research Group, The University of Reading, England/UK DRS Design Research Society (Membership since March 2001) Mieke Oostra Leerstoel Produktontwikkeling, Fakulteit Bouwkunde, TU Delft, NL Oya Demirbilek School of the Built Environment, Industrial Design, The University of New South Wales, Australia Thank you!

I would like to draw your attention to our newly translated web pages where this report is also available:

<http://www.tu-dresden.de/arige/sozialb/dfg-projekt.htm> (DFG Research Project)
<http://www.tu-dresden.de/arige/sozialb/forschung/2001-06-14-report-USA.pdf> (Report USA)

On that web page, the blue-marked and underlined links are of course active.

Monika Fendl
Dresden, 14 June 2001