

International Building Performance Evaluation (IBPE) Symposium

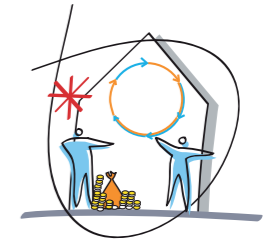
Teaching Building Performance Evaluation

by Ulrich Schramm, Ph.D.
University of Applied Sciences
FH Bielefeld/Germany

Subjects BA-program Construction Project Management

1.-3. Semester Basic Knowledge Required Subjects Introduction Construction Structural Engineering 1 Building Physics 1 Building Materials Drawing Design Law Mechanical Equipment Planning Management Technical English 1 Business & Economics Mathematics Site Organization 1 Site Organization 2 Building Type Analysis FM/Building Performance Evaluation	Options Basic Knowledge (2 Subjects) Technical English 2 2. Language i. e. Spanish 1, Russian Structural Engineering 2 Soil Mechanics
3.-5. Semester Specialized Knowledge Required Subjects Sustainability Site Organization 3 Business Management Calculation/Claim Management Facility Programming Controlling Cost Management Major Project (Focused Research Paper)	Options Specialized Knowledge (4 Subjects) Interior Design Health & Safety Standards Computer Science 1 Site Organization 4 IT-Tools Technical English 3 2. Language i. e. Spanish 2
6. Semester Application Practical Training (13 weeks in a company) Bachelor-Thesis (2 months)	

Grundlagen PMB Teil 2 / Facility Management / SS 10
 V 2P - Do., 9.45 - 11.15 Uhr, Raum A 250



Facility Management / Building Performance Evaluation

1/ Do., 25.03.	Importance of FM	<ul style="list-style-type: none"> • Organization and Literature • Context, Terms, Definitions
2/ Do., 01.04	The Building Life Cycle	<ul style="list-style-type: none"> • Linear Process / Sparkasse Hagen • Cycle / Feedforward / BMW I
3/ Do., 08.04.	Participants and Communication within the Building Life Cycle	<ul style="list-style-type: none"> • Project Phase - Object Phase • Planners - Users
4/ Do., 15.04.	Phase I: Strategic Planning Loop 1: Effectiveness Review	<ul style="list-style-type: none"> • strategic / operative FM • edra 34: Roche UK I
5/ Do., 22.04.	Phase II: Facility Programming 1 Loop 2: Program Review	<ul style="list-style-type: none"> • ISO 9699 / Peters: CRSS • DIN 18205 / Roche UK II
6/ Do., 29.04.	Phase II: Facility Programming 2 Loop 2: Program Review	<ul style="list-style-type: none"> • ISO 9699 / Peters: CRSS • DIN 18205 / Roche UK II
7/ Do., 06.05.	Phase III: Design Loop 3: Design Review	<ul style="list-style-type: none"> • Gutenb'g-Gym. Erfurt /Königsplatz KS • Stadthalle Regensburg / BMW III
8/ Do., 13.05.	no lecture (Himmelfahrt)	<ul style="list-style-type: none"> • time to read or work
9/ Do., 20.05.	Phase IV: Construction Loop 4: Commissioning	<ul style="list-style-type: none"> • Gesamtschule Hübner / Stgt. is build. • User Manual Behnisch
10/ Do., 27.05.	Phase V: Occupancy 1 Loop 5: Post-Occup. Evaluation	<ul style="list-style-type: none"> • DIN 18960 / DIN 32736 • POE, STM, DIFA
11/ Do., 03.06.	no lecture (Fronleichnam/edra Washington)	<ul style="list-style-type: none"> • time to read or work
12/ Do., 10.06.	Phase V: Occupancy 2 Loop 5: Post-Occup. Evaluation	<ul style="list-style-type: none"> • DIN 18960 / DIN 32736 • POE, STM, DIFA
13/ Do., 17.06.	Phase VI: Recycling Loop 6: Market Analysis	<ul style="list-style-type: none"> • edra 35: Roche UK II / ICC Berlin • Graubner / Sparkasse Hagen
14/ Do., 24.06.	Case Study: ,offices'	<ul style="list-style-type: none"> • Office Concepts / Design

How does the curriculum reflect the issue of BPE?

- course of lectures on life cycle phases and review loops
- seminars to develop methods, tools and other capabilities
- focus on both hard facts eg. technical knowledge, and soft skills eg. personal competencies (team work, user in mind)

What issues does the agenda of the lectures include?

- introduction of the building life cycle with its participants
- considering the 6 sub-phases and the internal review loops
- illustrated with case studies (journals, internet recherche etc.)
- focus on user involvement, feedback and acceptance



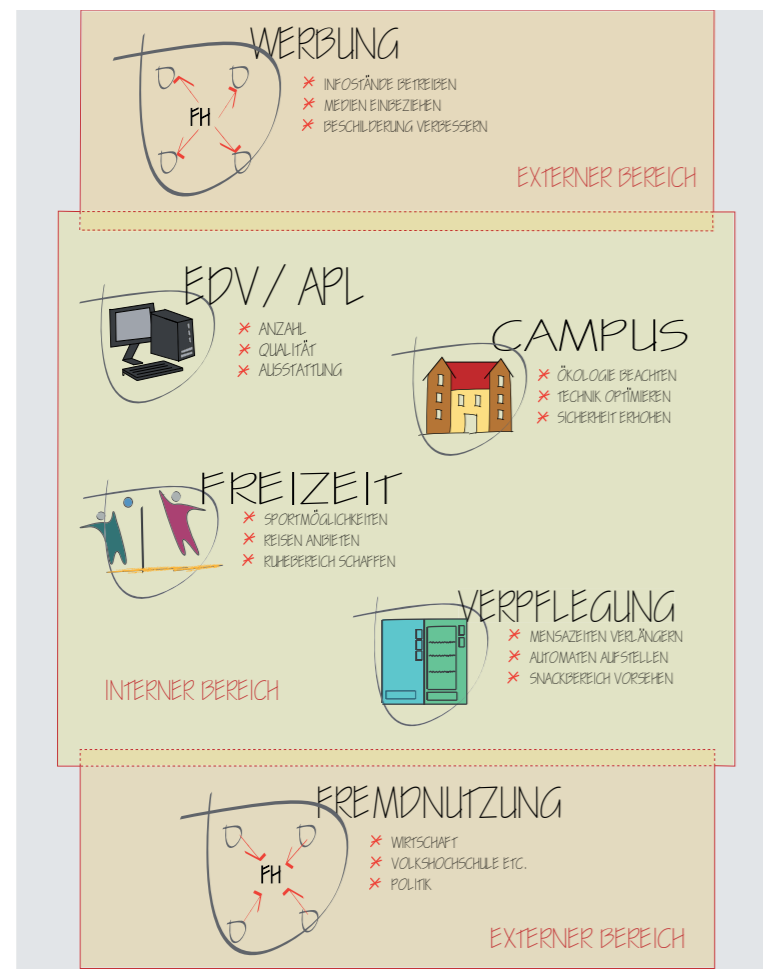
MENSA ÖFFNUNGSZEITEN
8-18
VERLÄNGERN

SERVICE BEREICH
* PLATZANGEBOT
* ÖFFNUNGSZEIT
ERWEITERN

KANTINENESSEN
* GRÖßERE AUSWAHL
* ABWECHSLUNGSREICHER
VERBESSERN

ZEITUNG
* IN DER MENSA
ANBIETEN

IM SNACKBEREICH:
50 PERS.
* DIE HALBE STUFE AN TISCHEN
PLÄTZE VORSEHEN



Fachhochschule Bielefeld
University of Applied Sciences
Fachbereich Architektur und Bauingenieurwesen

Home | Studium | Forschung | Internationales | Fachbereiche | Über uns | Presse | Service

Fachbereich Architektur und Bauingenieurwesen

Studium
Forschung und Entwicklung
Projekte und Veranstaltungen
Labore und Einrichtungen
Personen
Über uns
Campus Minden

Post-Occupancy Evaluation (POE) / Nutzerorientierte Gebäudebewertung
Prof. Dr.-Ing. Ulrich Schramm

Schnellzugriff:
Bibliothek

Verzeichnis abgeschlossener POEs

WS 2009/10 Masterstudierende

- Hammer Heimtex-Fachmarkt, Minden - Dennis Albersmeier und Markus Franke
- Freiherr-von-Vincke Realschule, Minden - Kathrin Bieber und Tino Taake
- Herder-Gymnasium, Minden - Miriam Klein und Andreas Müller
- Verwaltungsgebäude der MIT Moderne IndustrieTechnik GmbH, Vlotho-Exter - Sven Mylius

SS 2007 Diplomstudierende

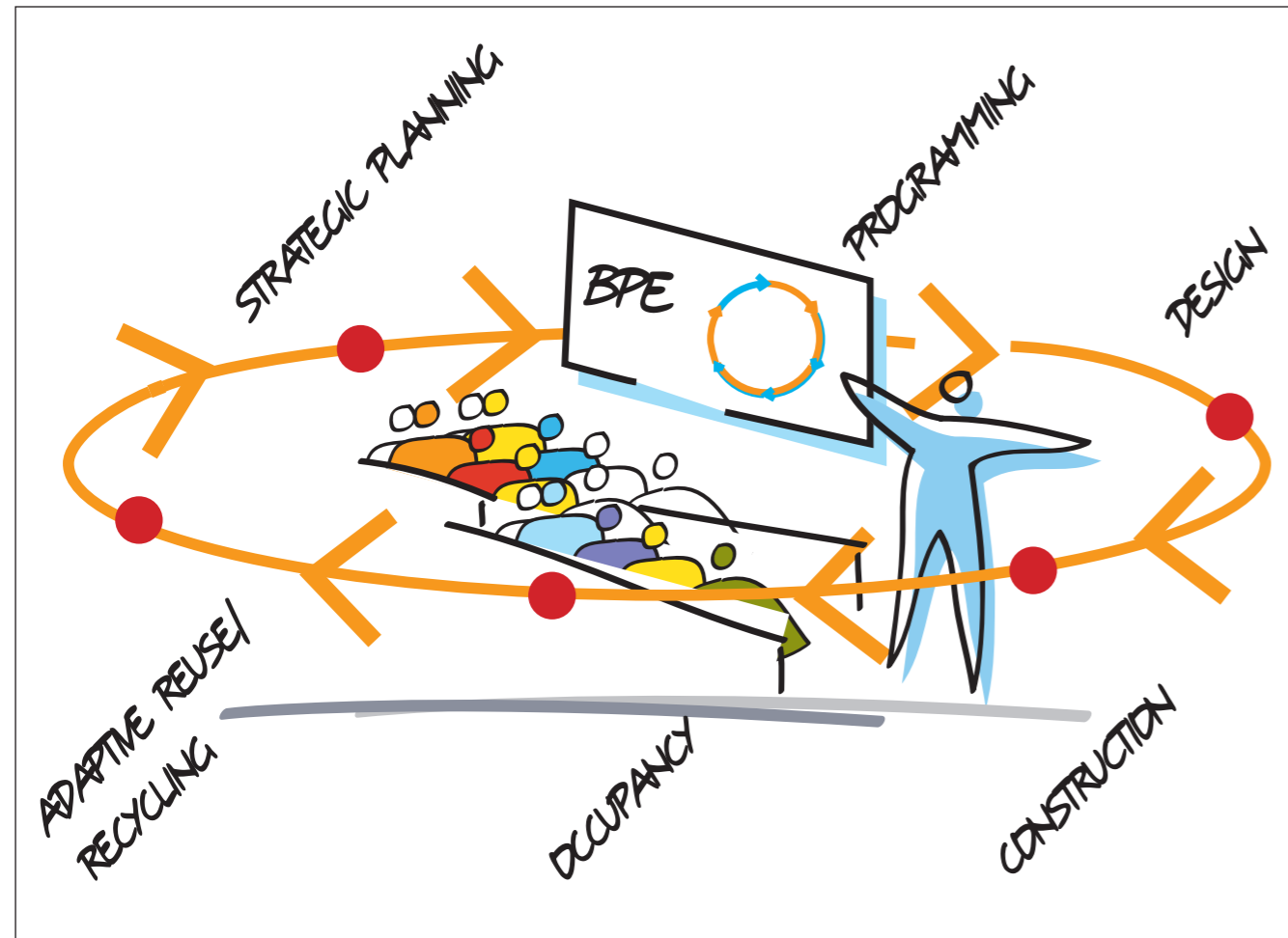
- Internationales Begegnungszentrum (IBZ), Bielefeld - Cebrail Atilgan, Damian Grzonka, Martin Türkan
- Ev.-luth. Kindergarten, Kirchlengern - Jan Büteröwe und Johannes Lückingsmeier
- Café Vielfalt, Hüllhorst - Christoph Erdbrügger, Christian Buhr, Florian Röhrs
- Finanzamt Minden - Patricia Friedrich, Alexandra Klemme, Mark Luckas
- Kindertagesstätte Kinderparadies, Bünde - Nicole Glowinski und Nina Warkentin
- Firmenhauptsitz Altendorf, Minden - Nils Heine, Sebastian Frank, Rijad Aziza

What does the stimulating seminars look like?

- focus on phase 2: programming - program review
- to apply the method in a familiar context: campus expansion
- to understand the interrelations of programming-phase with other phases of the building life cycle, eg. occupancy/POE

What other stimulating seminars do exist?

- focus on phase 5: occupancy - POE
- to understand POE as one of the 6 review loops
- to choose case studies in teams of 2 - 3 students (Master)
- to apply the method on a building of their own choice



What are the benefits of teaching BPE?

- our graduates: think in a life-cycle oriented way
- as professionals: they enhance building performance
- their clients: get cost-effective buildings of better quality
- we ensure the liveability / functionality of human habitats

Professor Dr. Ulrich Schramm
 School of Architecture and Civil Engineering
 FH Bielefeld, University of Applied Sciences
 Artilleriestrasse 9, 32427 Minden/Germany
 Email: ulrich.schramm@fh-bielefeld.de
 Internet: www.fh-bielefeld.de/fb6

References:

- Preiser, W.F.E.; Schramm, U.: „A Conceptual Framework for Building Performance Evaluation“ in: Mallory-Hill, S.; Preiser, W.; Watson, C. (eds.): Enhancing Building Performance, Wiley-Blackwell (in preparation)
- Schramm, U.: „Teaching Building Performance Evaluation“ in: Mallory-Hill, S.; Preiser, W.; Watson, C. (eds.): Enhancing Building Performance, Wiley-Blackwell (in preparation)
- Schramm, U.: „Phase 1: Strategic Planning - Effectiveness Review“ in: Preiser, W.F.E., Vischer, J. (eds.): Assessing Building Performance, Elsevier, Oxford, 2005
- Preiser, W.F.E. und Schramm, U.: „A Conceptual Framework for Building Performance Evaluation“ in: Preiser, W., Vischer, J. (eds.): Assessing Building Performance, Elsevier, Oxford, 2005
- Schramm, U.: „Learning from Building-User Feedback: The Post-Occupancy Evaluation Process Model in the Cross-Cultural Context“ in: Dunin-Woyseth, H., Noschis, K. (eds.): Architecture and Teaching: Epistemological Foundations, Chabloz, Lausanne, 1998
- Preiser, W.F.E.; Schramm, U.: 'Building Performance Evaluation' in: Watson, D. et al. (eds.): Time Saver Standards (7th edition), McGraw-Hill, New York, 1997