design for rescue and disaster

a challenge and opportunities for designers, architects and engineers

Noemi Bitterman Technion-Israel Institute of Technology

Perugia, May 21-25, 2018

Location
Engineering Pole, Via Groffredo Duranti 93

Duration 5 days from 9:00 to 18:00

University credits 3 CFU

Partecipants
25 students of Building engineering-Architecture
and Design courses

Language English

Director of the Department Annibale Luigi Materazzi

Scientific coordinator of the workshop Paolo Belardi

Tutor of the workshop Giovanna Ramaccini

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"It is our duty to design for the needs of societyfrom developed countries through to the special requirements of the aged, the poor, the disabled and the sick" was stated by Victor Papanek (1927-99), educator and philosopher of design in his monumental book Design For The Real World. Nature and manmade disaster and emergency events are expanding, resulting in lots of casualties, injured and homeless people all over the globe. The goal of the studio is to increase students awareness and knowledge of disaster situations, explore special needs of diverse populations, characterize extreme and hazardous environmental conditions and design solutions for improving disaster problems, and wellness of sufferers and performance of the support team. However, mostly to design and plan the infrastructure to be prepared for the next unexpected disasters.

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about the programme

Noemi Bitterman is president of the degree in Industrial Design focusing on medical and social design at the Technion-Israel Institute of Technology. During her academic career she obtained a Master's Degree in Industrial Design and a PhD in Medical Sciences, as well as a post-doctorate scholarship at the University of Pennsylvania, USA, For 13 years she was the regular of the Industrial Design chair at the Faculty of Architecture and Town Planning in Haifa: previously she supervised the Hyperbaric Research Unit of dell'Israeli Naval Hyperbaric Institute (INHI), conducting basic and applied research on performance in extreme environments. She is currently a visiting professor at the IUAV University of Venice, where she teaches in the field of design for emergencies and disaster. The main research interests include hospital design, the operating theater of the future, portable hospitals for disasters, the Health Smart Home and wellness gardens. She is developing concepts for personalized or "tailor-made" design, using innovative technologies to favor the use by elderly and disabled people of both sexes; she also elaborates quantitative objective physiological methods for the design and evaluation of environments and equipment.

MONDAY, 21

Lecture hall 9:00-11:00

Work opening and public lesson

greetings

Paolo Belardi

Design Course President DICA-UNIPG

Massimiliano Gioffrè

Building engineering-Architecture Course Coordinator DICA-UNIPG

partecipations

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Civil Protection

"Laboratorio di progettazione e modellazione"

11:00-13:00

Studio (individual work)

14:00-18:00

Studio (individual and group work), students presentations and review

TUESDAY. 22

"Laboratorio di progettazione e modellazione" 9:00-13:00

Lessons (Performance in extreme environment. Biomimicry) and studio (group-work)

14:00-18:00

Studio (group-work) and students presentation

WEDNESDAY. 23

"Laboratorio di progettazione e modellazione" 9:00-13:00

Lesson (Design for special populations) and studio (group-work)

14:00-18:00

Studio (group-work), students presentations and review

THURSDAY, 24

"Laboratorio di progettazione e modellazione"

9:00-13:00

Lesson (*Innovative technologies*)

studio (group-work) and review

14:00-18:00

Studio (group-work) and review

FRIDAY, 25

9:00-13:00

"Laboratorio di progettazione e modellazione"

Studio (group-work) and review

15:00-18:00

Lecture hall

Conclusion of the work and public presentation

greetings

Franco Moriconi

Magnificent Rector UNIPG

Annibale Luigi Materazzi

Director DICA-UNIPG

Paolo Belardi

Design Course President DICA-UNIPG

Massimiliano Gioffrè

Building engineering-Architecture Course Coordinator DICA-UNIPG

Franco Giacometti

Sole director Tecla srl

presentations

Students

Design Course and Building engineering-Architecture Course

conclusions

Noemi Bitterman

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