

Composite Bridges with Integral Abutments- a safe, economic and sustainable solution

Aachen/Munich/Wrocław - In the design and construction of bridges, in addition to safety and serviceability issues, questions of sustainability, maintenance and durability in the service life become more and more important. Hence integral abutment bridges become highly attractive to owners, designers, constructors and road administrations. Therefore two workshops will be held in Munich and Wrocław in spring 2010, targeting at engineering offices, construction companies specialised in bridge engineering, governmental departments as well as public authorities for road and highway administration as main client.

Composite bridges with integral abutments are characterized by two major advantages. On the one hand, the superstructure is restraint at the end supports such that end moments counteracting to the field moments leads to bridges with a small construction height of the superstructure. On the other hand, expansion joints are omitted. Furthermore costly and maintenance-intensive bearings are eliminated. Both advantages yield into very robust and cost effective bridge solutions for which the provision of a maximum of flexibility in the clearance underneath the bridge and a minimum of life time costs of the structure are achieved. However, this bridge type is not very widespread except in the USA and Great Britain, as integral abutments suffer from a lack of knowledge regarding their construction as well as their advantages that has to be overcome.

To find a remedy, the European RFCS project INTAB (Economic and Durable Design of Composite Bridges with Integral Abutments) has been launched. Within the scope of this project, two workshops are organized in Munich and in Wrocław in spring 2010. Besides results of the research project, the range of application of integral abutment bridges, typical design examples as well as an overview of life cycle costs will be presented. Furthermore constructional aspects and design rules will be covered.

**INTAB+ is an RFCS - project of the European Commission
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Partners of the INTAB+ project:
RWTH Aachen University
Luleå University of Technology
SSF Ingenieure GmbH
ArcelorMittal



Information and Registration

INTAB+ Seminar 2010
April 28th, 2010 / 09:00 - 17:00

Host:

RWTH Aachen University, Institute for Steel Structures /
Luleå University of Technology, Div. of Structural Engineering

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www.bridgedesign.de

In cooperation with:

EUROPROJEKT Gdańsk Sp. z o. o.
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80-680 Gdansk
Poland

Wrocław University of Technology
Department of Civil Engineering
Wybrzeże Wyspiańskiego 27
50-370 Wrocław
Poland

Venue:

Hotel im. Jana Pawła II
ul. Św. Idziego 2
50-328 Wrocław
Poland

Participation fee: 30,- EUR

INTAB+ Seminar 2010 Composite Bridges with Integral Abutments



Morning Session

Afternoon Session

Workshop venue: Hotel im. Jana Pawła II
April 28th 2010

09:00 Presentation of RFCS INTAB,
Prof. Feldmann, RWTH Aachen University

Introductory Lectures

09:30 Keynote lecture - to be announced
EUROPROJEKT Gdańsk Sp. z o. o.

10:00 Keynote lecture - to be announced
Wrocław University of Technology

10:30 **Coffee Break**

11:00 Keynote lecture - to be announced
Wrocław University of Technology

11:30 Keynote lecture
to be announced

12:00 **Lunch**

Project INTAB

13:00 Design of integral abutment bridges, Prof. Veljkovic

13:30 Composite frames, Dr. Seidl

13:45 Design guide for the construction of composite integral
abutment bridges INTAB, Dr. Hechler

Integral abutment bridges in praxis

14:30 Soil-structure interaction, Mr. Pak

15:00 **Coffee Break**

15:30 Construction details, Dr. Seidl

16:15 Design rules, Dr. Hechler

16:45 Monitoring of an integral abutment bridge, Prof. Veljkovic

17:15 **End of workshop**

Registration

First name / Surname

Company / Affiliation

Telephone number

Email

☐ Hereby I register obligatory for the above mentioned workshop

Signature / Company stamp

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