HISER

International Conference

21, 22 & 23 June 2017

TU Delft
Local Organizing Committee
Francesco Di Maio
Somayeh Lotfi
Maarten Bakker
Eric van Roekel
David Garcia Estevez
Ali Vahidi
Iris Batterham

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PROGRAM

HISER International Conference Delft

21, 22 & 23 June 2017

Science Centre (Building 3 on the map attached)
Mijnbouwstraat 120
2628 RX Delft, The Netherlands

This event is organized in collaboration with the H2020 project BAMB - Building as Material Banks.
Dear Author, Exhibitor, Engineer and Student,

Currently 461 million tons per year of (ever more) complex construction and demolition waste (C&DW) are generated within the European Union. The average recycling rate is around 46%. Therefore there is still a significant loss of potential valuable minerals, metals and organic materials all over Europe. Several initiatives are ongoing worldwide to develop methodologies and technologies to turn this waste streams into resources for the benefit of the economy and the environment.

Among them, the European funded HISER project (www.hiserproject.eu) which aims to develop and demonstrate novel cost-effective technological and non-technological holistic solutions for a higher recovery of raw materials from ever more complex C&DW, by considering circular economy approaches throughout the building value chain (from the End-of-Life Buildings to new Buildings).

With great pleasure we present you the program for HISER conference 2017 Delft. With interesting presentations, keynote lectures and special events we are convinced that the conference will bring research and practice together and efforts to solve demands of modern society.

More information on the conference is given in the attached flyer and on the website www.citg.tudelft.nl/hiser

With kind regards,

On behalf of the Organizing and Scientific Committee

Dr. Francesco DiMaio
Keynote Speakers:

**Wednesday 21 June**
Prof. dr. C.S. Poon
Hong Kong Polytechnic University

**Wednesday 21 June**
Bob Geldermans
AMS INSTITUTE

**Thursday 22 June**
Prof. dr. P.C. (Peter) Rem
Delft University of Technology

**Thursday 22 June**
Prof. dr. Jianzhuang Xiao
Tongji University

Technical Tours:

**Thursday 22 June**
Visit STRUKTON/GBN Recycling Site in Roosendaal

**Friday 23 June**
Visit C2CA Technology (Strukton | GBN site in Hoorn)
### HISER International Conference 2017

#### Conference Program

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<td>8:00</td>
<td><strong>REGISTRATION AND REFRESHMENTS</strong></td>
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<td>9:00</td>
<td><strong>WELCOME and OPENING</strong></td>
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<td>June 21</td>
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<td><strong>PLENARY PRESENTATIONS</strong></td>
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<td><strong>Coffee Break</strong></td>
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<td>12:45</td>
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<td>19:00</td>
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<td><strong>Dinner</strong></td>
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<td>Thursday</td>
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<td><strong>PLENARY PRESENTATIONS</strong></td>
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<td>June 22</td>
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<td><strong>Lunch</strong></td>
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<td></td>
<td>15:00</td>
<td><strong>TECHNICAL TOUR to the STRUKTON GBN Recycling Site in Roosendaal</strong></td>
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<td>20:00</td>
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<tr>
<td>Friday</td>
<td>9:00</td>
<td><strong>TECHNICAL TOUR: Visit CZCA Technology (Strukton GBN site in Hoorn)</strong></td>
<td><strong>END. Return to Delft</strong></td>
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<td>June 23</td>
<td>11:30</td>
<td><strong>CZCA Technology Industrial Demonstration</strong></td>
<td><strong>Lunch</strong></td>
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<td>15:30</td>
<td><strong>Discussion</strong></td>
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## Parallel Sessions:

### HISER CONFERENCE

#### DAY 1: Wednesday, June 21, 2017

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<tr>
<th>Time</th>
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</table>
| 10:00 - 10:15 | VII. Model uncertainty of recycled aggregate concrete beams subjected to bending  
**J. Pacheco, J. de Brito, C. Chatrre, L. Evangelista**  
*University of Lisbon*  
I. Microwave-Induced Interfacial Failure to Enable Debonding of Composite Materials  
**Steffen Lieberzeit, habil. Anette Müller, Barbara Leydolph, Ulrich Palzer**  
*Weimar Institute of Applied Construction Research* |  
| 10:15 - 10:30 | VII. Lightweight gypsum mortar with construction waste to be used as coatings with improved superficial hardness  
**Mercedes del Rio Merino, Paola Villoria Sáez, Jaime Santa Cruz Astorquii, Antonio Rodríguez**  
*Technical University of Madrid*  
I. Semi-selective demolition: current demolition practices in Flanders  
**Jef Bergmans, Philippe Dierskhu, Sofie De Regel, Annelies Vandenvynd, Philippe Van de Velde**,  
*VITO* |  
| 10:30 - 10:45 | VII. Influence of the saturation state of recycled sand on mortars compressive strength  
**Yacoub A., Djerbi Tegguer A., Fén-chong T.**  
*IFSTTAR*  
I. Deconstruction, preparation for reuse and reuse of salvaged materials on a pilot construction site in Brussels  
**Rommée A., Billiet L., Mahieu O., Vrijders J.**  
*Belgian Building Research Institute (BBRI)* |  
| 10:45 - 11:00 | VII. Properties of concrete blocks made with recycled concrete aggregates: from block wastes to new blocks  
**Zengfeng Zhao, Luc Courard, Frédéric Michiel, Sébastien Remond, Denis Damidot**  
*University of Liège*  
IV. The potential of graph theories to assess buildings’ disassembly and components’ reuse: How building information modelling (BIM) and social network analysis (SNA) metrics might help Design for Disassembly (DfD)?  
**F. Denis, N. De Temmerman, V. Rammer**  
*Vrije Universiteit Brussel* |  
| 11:30 - 11:45 | VII. Using Recycle Concrete Aggregate Coating Agent for Improving Concrete Microstructure and Hardened Characteristics  
**Lapyote Prasitsilipon, P. Chattarakamon Chaiyapoom, Chawis Thongyothee, Chalermwut Siam Research and Innovation company**  
|  
| 11:45 - 12:00 | VII. Recycled Aggregate in civil works and building construction  
**C. Medina, I.F. Sáez del Bosque, A. Matías, B. Cantero, P. Plaza, P. Velardo, E. Asensio**,  
*University of Extremadura*  
IX. Traceability: a tool for the valorization of secondary materials in the Flemish region  
**Liesbet Van Cauwenbergh, Annelies Vandenvynd Eynede**  
*Grundbank vzw* |  
| 12:00 - 12:15 | VII. Use of concrete recycled aggregates as a raw material in lightweight mortar fabrication  
**González Cortina, M. A. M. Roque, J. M. Martín and M. L. Antunes**  
*Universidad Politécnica de Madrid*  
IX. Putting recycled concrete into practice in Belgium: From case studies over chain management to standards and quality assurance  
**Jeroen Vrijders, Bram Doms, Petra Van Itterbeek**  
*Belgian Building Research Institute (BBRI)* |  
| 12:15 - 12:30 | VII. Performance of C&DW materials for road applications validated by field monitoring  
**J. Neves, A.C. Freire, A.J. Roque, I.M. Martins and M.L. Antunes**  
*Laboratório Nacional de Engenharia Civil – LNEC*  
IX. Waste audit – securing good quality raw material from construction and demolition waste  
**Wahlström, M., Hradil, P., Arevalillo A.**  
*VIT* |  
| 12:30 - 12:45 | VII. Study of reuse from recycled aggregate processing  
**M.I. Sánchez de Rojas, E. Asensio, M. Frias, C. Medina**  
*Eduardo Torroja - CSIC*  
X. Impact of Green Public procurement on the market of recycled concrete  
**Frédéric Bourrain**  
*Centre Scientifique et Technique du Bâtiment* |
## HISER Conference

### Day 1: Wednesday, June 21, 2017

| Time       | A: II. Sorting of Mineral Construction and Demolition Wastes by Near-Infrared Technology  
Elske Linß, Andrea Karrasch, Mirko Landmann  
Bauhaus-Universität Weimar  
14:00 - 14:15  
| B: VIII. Systemic view on Reuse Potential of building elements, components and systems - Comprehensive Framework for assessing Reuse Potential of Building Elements  
Elma Durmisevic, Pieter R. Beurskens  
University of Twente  
14:15 - 14:30  |
| 14:30 - 14:45  | A: II. Separation in air jigs of mixed construction and demolition waste  
W. M. Ambrós, C. H. Sampalo, B. G. Cazacliú, G. L. Miltzarek, L. R. Miranda  
Federal University of Rio Grande do Sul  
| B: VIII. Assessing potential financial and environmental benefits of a newly developed waste traceability system in Flanders  
Wim Debacker, Sofie De Regel, Annelies Vanden Eynde  
VITO  
| 14:45 - 15:00  | A: II. CO2 uptake by fine fractions of CDW  
D. Gastaldi, F. Canonico  
Buzzi Unicem  
| B: VIII. Environmental impact of concrete with recycled aggregates an evaluation through 4 case studies  
Jeroen Vrijders and Lisa Wastiels  
BBRI  
| 15:00 - 15:15  | A: II. How Los Angeles test could be better adapted to the recycled concrete aggregate  
B. Cazacliú, R. Artoni, E. Hamard, A. Cothenet  
IFSTTAR  
| B: VIII. Bottom-up policy support: using a construction materials model to identify and quick scan circular opportunities  
Elisabeth Keijzer, Jacco Verstraeten-Jochenssen  
TNO  
| 15:15 - 15:30  | A: II. The Manufacture of Lightweight Aggregates from Recycled Masonry Rubble  
Anette Müller, Steffen Liebezeit, Barbara Leydolphi, Ulrich Palzer  
Institut für Angewandte Bauforschung Weimar  
| B: VIII. Assessing potential financial and environmental benefits of Brick-to-Brick manufacturing  
Wim Debacker, Sofie De Regel, Omar Amara, Wai Chung Lam, Jef Bergemanns  
VITO  
| 15:30 - 15:45  | A: II. Development of an innovative process for up-cycling of concrete Waste  
Kathy Bru, Solène Touzé, Daniel B. Parvaz  
BRGM  
| B: VIII. Life Cycle Assessment and Life Cycle Costing for Demolition Waste Management  
Mingming Hu, Valentina Prado-Lopez, Brenda Miranda-Xicotencatl, Diana Ita-Nagy, S. Lotfi,  
Leiden University  
|
## HISER CONFERENCE

### DAY 1: Wednesday, June 21, 2017

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<tr>
<td>16:00 - 16:15</td>
<td>II. Concrete mixing monitoring by image analysis applied to Recycled Aggregate Concrete. J. Moreno-Juez, R. Artoni, B. Cazacliu, E. Khoury. IFSTTAR</td>
<td>VIII. Design Support for Revisable Buildings with focus on visualizing and simulating transformation capacity during initial design phase Elma Durmisevic, Marc C. Berg, Ussama Atteya University of Twente</td>
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<tr>
<td>16:15 - 16:30</td>
<td>II. Indexing and Sorting Robot Based on Hyperspectral and Reflectance Information Tommaso Zerbi, Roberto Landò, Raffaele Vina, Konstantinos Grigoriadis, Marios Soutsos STAMsri</td>
<td>VIII. Building with a positive ecological footprint Development and evaluation of a Cradle to Cradle ®-inspired energy-plus house Sallner S., Lang W. Hochschule Ansbach</td>
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<tr>
<td>16:45 - 17:00</td>
<td>II. Characterization of filler fraction from the production of recycled sand from CDW Isabel Martins, Carina Ulsen, Henrique Kahn, Mirko Landmann, Annette Mueller LNEC</td>
<td>VIII. GtoG - from gypsum to gypsum - a circular economy for the gypsum industry with the demolition and recycling industries Christine Marlet Eurogypsum</td>
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<tr>
<td>17:00 - 17:15</td>
<td>II. Differences between Laboratory and In-Situ Conditions Leading to Bad Estimation of the Water Absorption Capacity of Recycled Concrete Aggregates E. Khoury, B. Cazacliu, S. Remond IFSTTAR</td>
<td>XI. Influence of Institutional Arrangements on On-site Recycling and Reuse Practices of C&amp;D Waste V. G. Ram, Satyanarayana Kalidindi, Harish Krishna Nanduru Indian Institute of Technology Madras (IITM)</td>
</tr>
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<td>17:30 - 17:45</td>
<td>VI. The French National Project Recybéton, to bring the concrete world into circular economy F. de Larrard, H. Colina LafargeHolcim</td>
<td>XI. Construction and Demolition Waste Management in India Soumen Maity, Pankaj Pahuwari, Vaibhav Rathi, Krishna Chandran, Achu Sekhar, Avinash Kumar Qtab Institutional Area</td>
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## HISER Conference

### Day 2: Thursday, June 22, 2017

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<tr>
<th>Time</th>
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</table>
| 10:00 - 10:15 | XI. Developments in the Production and Use of Recycled Demolition Aggregate in the North West of England During the Last 15 Years.  
Marios Soutsos  
Queen’s University Belfast | III. Construction and demolition waste as a resource for sustainable, very low-energy buildings  
Ivana Banjad Pečur, Marina Bagarić, Bojan Milovanović, Ivana Carević  
University of Zagreb |
| 10:15 - 10:30 | XI. Environmental policy support for pre-demolition audits in Luxembourg  
Christina Ehler, Arno P. Biwer, and Enrico Benetto  
Luxembourg Institute of Science and Technology | III. Toward a complete reemployment on site of recycled aggregates stemming from demolition work  
S. Alexianian, F. Hubert, F. Buyle-Bodin  
Lille 1 University |
| 10:30 - 10:45 | XI. Material Flows of the German Building Sector  
Matthias A. Heinrich  
Technical University of Munich | III. Extending buildings’ life cycle: sustainability early design support tool  
Joana B. Andrade and Luís Bragança  
University of Minho |
| 10:45 - 11:00 | XI. Business models for building material circularity: learnings from frontrunner cases  
K. Wang, S. Vanassche, A Ribeiro, M. Peters, J. Oseyran  
VITO | III. Reuse of building products and materials – barriers and opportunities  
Gilli Hobbs, Katherine Adams  
BRE |
| 11:00 - 11:15 | XI. Comparative case study of the Construction and Demolition Waste practical treatment induced by different legislations in France and Belgium  
Mignon B. and Bréquel H.  
Centre Terre et Pierre (CTP) | III. Circular Economy and Design for Change within the Built Environment: preparing the transition  
Wim Debacker, Saskia Manshoven, Martijn Peters, Andre Ribeiro, Yves De Weerd  
VITO |
| 11:15 - 11:30 | XI. Successful steel reuse in the UK – key aspects why it happened  
Michal P. Drewniok, Cyrille F. Dunant, Julian M. Allwood, Jonathan M. Cullen  
University of Cambridge | III. The role of the client to enable circular economy in the building sector  
Katherine Tebbati Adams, Mohamed Osmani, Tony Thorpe, Gilli Hobbs  
Loughborough University |
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<th>Time</th>
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<td>12:00 - 12:15</td>
<td>XI. Up-cycling today’s building stock: the case study of Paris region</td>
<td>III. The use of renewable materials in reversible building design: a literature study</td>
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<td></td>
<td>Augiseau V. and Barles S.</td>
<td>Mieke Vandenbroeck</td>
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<td>Université Paris</td>
<td>VIB</td>
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<tr>
<td>12:15 - 12:30</td>
<td>XI. Characterizing the generation and flows of construction and demolition waste in China</td>
<td>VI. It is possible to economically upcycle recycled aggregates</td>
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<tr>
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<td>Lina Zheng, Huabo Duan, Gang Liu</td>
<td>Lauredan Le Guen, Ferro G., Cazacliu B.</td>
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<td>University of Southern Denmark</td>
<td>IFSTTAR</td>
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<td>Maria F. Castro, Ricardo Mateus, Luis Bragança</td>
<td>Dawid Krysiński</td>
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<td>University of Minho</td>
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<tr>
<td>12:45 - 13:00</td>
<td>II. Building Waste – Construction materials from your waste</td>
<td>VI. European Circular Construction Alliance - adopting Circular Economy for internationalization and global competitiveness of European SMEs in Building and Construction</td>
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<td>Eunan Kelly, Lauren McMaster</td>
<td>Gumilar Vladimir, Dana Przemyslaw</td>
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<td>CDE Global</td>
<td>sEaNERGIA Baltic Cluster</td>
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<td>13:00 - 13:15</td>
<td>II. Production of low porosity recycled sand from construction and demolition waste</td>
<td>VI. Reuse of building components: an economic analysis</td>
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<td>Carina Ulsen, Henrique Kahn, Juliana L., Antonioassi, Isabel Martina</td>
<td>Frédéric Bougrain, Sylvain Laurencetou</td>
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<td>University of Sao Paulo</td>
<td>CSTB</td>
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<td>13:15 - 13:30</td>
<td>XI. A survey on the construction and demolition waste in Mongolia</td>
<td>III. Multi-criteria study for recycled concrete aggregate separation process</td>
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<td>Tommaso Troiani, Somayeh Lotfi</td>
<td>Sandrine Brayman, Adelaide Feraille, Nicolas serres, Françoise Fuguex</td>
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<td>TU DELFT</td>
<td>ICube, Strasbourg Univ.</td>
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<tr>
<td>13:30 - 13:45</td>
<td>III. Closing the loop of EOL concrete</td>
<td>VII. Feasibility of surface sampling in automated inspection of concrete aggregates during bulk transport on a conveyor</td>
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<td>Somayeh Lotfi, Peter Rem, Francesco Di Maio, Abraham Teklay, Mingming Hu, Eric van Roekel</td>
<td>M.C.M. Bakker</td>
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**General information:**

The HISER conference is a 3 day meeting dedicated to the topics of:

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<tr>
<td>II</td>
<td>Innovative Technological Solutions for Recycling and Recovery of High Quality Building Materials from C&amp;DW</td>
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<td>III</td>
<td>Enabling Circular Product Design and Facilitating the Reuse of Building Materials</td>
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<td>IV</td>
<td>Deconstruction, Transformable and Reversible Building Design</td>
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<td>Building Information Modeling - BIM</td>
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<td>VI</td>
<td>Development of Circular Economy Business Models</td>
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<td>VII</td>
<td>Performance and Durability of Recycled Building Materials</td>
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<td>VIII</td>
<td>Environmental assessment, Life Cycle Analysis, Risks and Health Safety of C&amp;DW Materials</td>
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<td>IX</td>
<td>Standards and Regulations for Quality Control of Recycled Building Materials from C&amp;DW</td>
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<td>X</td>
<td>Standards and Regulation for Reverse Logistics and Circular Value Chain in Buildings</td>
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<td>XI</td>
<td>Case studies</td>
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The aim of the conference is to develop and demonstrate novel cost-effective technological and non-technological holistic solutions for a higher recovery of raw materials from ever more complex C&DW, by considering circular economy approaches throughout the building value chain (from the End-of-Life Buildings to new Buildings).

Furthermore, the proposed conference intends to provide researchers and industry experts with the opportunity to exchange their ideas and showcases in advanced/innovative technologies and methodologies to process and valorize C&DW in the context of circular economy.

**Registration fee**

Online registration is possible via the conference website. On the conference website, there is also a link to a hotel reservation website. The registration fee includes the participation to the conference sessions, the coffee, tea, beverages, the conference dinner and a copy of the proceedings.

**Presentations**

For the presentations computers (with Power-point, PDF viewer and Movie-players) and beamers will be available. Please bring your presentation with you when you register for the conference on Monday-morning. We will then upload your presentation to the computers and make sure it will be available at your session.
Conference web-site
www.ctg.tudelft.nl/hiser

Visiting address:
Science Centre
Mijnbouwstraat 120
2628 RX Delft, The Netherlands

Free WIFI available:
SSID: HISER17
Wpa2 key: tudelft2017

Science Centre Mijnbouwstraat 120, Delft
Accessibility of the TU Campus by Public Transport
Delft can be reached by direct trains from Schiphol airport. The TU Campus can be reached from Delft Station with the district lines 69, 121 or 129. For more information see also: http://www.9292ov.nl/ (in Dutch).

Accessibility of the TU Campus by car
The TU Campus is easily accessible by car via the A13, exit Delft/Pijnacker and exit Delft Zuid/TU-wijk.

Map and how to reach us
A map of the TU Campus is attached to this booklet and a map of the city of Delft will be included in the conference bag. Building 3 is the Science Centre building, host of the conference. To reach the Science Centre by walking from the city centre takes about 15 minutes.

HISER- International Conference 2017

Conference contact person:
Iris Batterham

Mobile: +31 (0) 6 46735478
E: i.batterham@tudelft.nl
www.me.citg.tudelft.nl/events
**Summer in Delft**

There is no other place where you will encounter so many globally appealing cultural-historical values as in Delft – Delftware, Johannes Vermeer, Jan Steen, the link with the Dutch royal family and the Dutch East India Company. But Delft is more than history; Delft is a lively modern city with many innovations. Even if you know Delft, we are sure that you will be pleasantly surprised during your visit to Delft! It is not only the location of Delft University of Technology, but also to a vast number of museums, art galleries, restaurants and cafés, not to mention the many lovely shops!

**Restaurant**
Van Der Dussen Restaurant: Bagijnhof 118 | 2611 AS, 2611 AS Delft

![Restaurant](image)

**Markt square**
The central market of Delft is one of the largest market squares in Europe, 50×120 yards, and bounded on the short ends by the Nieuwe Kerk (New Church) and the Stadhuis (City hall).

![Market square](image)

On the long axes, stores and restaurants with outdoor dining occupy most of the buildings. The square is on one of the highest points in the city and dates to the late 13th C. Market on Thursday.
Nieuwe Kerk

This famous church, with the second tallest steeple in The Netherlands at 375 ft, is consecrated to St. Ursula, and faces the City Hall across the market square.

By legend, the concept arose from the vision of a Delft beggar Symon in January 1351 who saw an image of golden church with Mary seated on a throne. A wooden church was erected on the site in 1381.

Delft Blue Ceramics
It is true! When visiting Delft you may not leave without visiting a shop, a boutique, a school or a museum full of Delft Blue. Most tourists do visit the Stedelijk Museum at Prinsenhof.
Prinsenhof
It is within these walls that the man of whom much has been writ and said once trod. William of Orange, also known in these parts as William the Silent, led the resistance against Spanish rule in the Netherlands.

The well laid out museum gives and insight into the times and William’s role in the rebellion.

Canals
The townhouses lining the Oude Canal remain true to principle of historic appearances, but most appear to have gutted and reconstructed interiors. Many exteriors have renovations as well, most apparent in the modern windows.

Many house businesses with scattered cute restaurants and the occasional hotel.