<table>
<thead>
<tr>
<th>CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Letter from the 2019 Organizing Committee</td>
</tr>
<tr>
<td>2. A Summary of the 2018 GLF-CEM in Stellenbosch</td>
</tr>
<tr>
<td>Dr. Jan Wium, Stellenbosch University</td>
</tr>
<tr>
<td>4. The 2019 GLF-CEM in Huddersfield, England</td>
</tr>
<tr>
<td>8. UPDATE</td>
</tr>
<tr>
<td>KPI Committee Progress</td>
</tr>
<tr>
<td>Dr. Markarand Hastak</td>
</tr>
<tr>
<td>10. Meet Our New Members</td>
</tr>
<tr>
<td>14. Membership List</td>
</tr>
<tr>
<td>16. Focus on Programs</td>
</tr>
<tr>
<td>Division of CEM at Purdue University</td>
</tr>
<tr>
<td>20. Member Feedback Survey</td>
</tr>
</tbody>
</table>
I wanted to cordially invite all relevant colleagues to the 2019 Global Leadership Forum for Construction Engineering and Management Programs taking place at the University of Huddersfield between the 5th-7th of June 2019.

Since 2011, eight successful meetings have been hosted around the globe by Purdue University (Lafayette, USA), Hong Kong Polytechnic University (Hong Kong), University of Alberta (Banff, Canada), Bauhaus University (Weimar, Germany), Tsinghua University (Beijing, China), University of Southern California (Los Angeles, USA) and Stellenbosch University (Stellenbosch, South Africa).

In recognition of the importance of leadership, the 2019 event hosted by the University of Huddersfield, UK, will focus on various aspects of leadership including, but not limited to, collaborations between industry and academia, collaborative program developments across the globe, trends and benchmarking initiatives, research collaboration and collaborative working at the interface of research, innovation and development, and new talent development in industry as well as academia. As such, the forum is encouraging both senior leaders from industry and academia to attend, as well as developing academics that can benefit from being exposed to a truly unique network that includes current decision makers.

Further updates and booking details are provided on the conference website on a regular basis as the programme becomes finalized.

The team at Huddersfield is looking forward to welcoming you all.

Kind Regards,

Mike Kagioglou

2019 GLF-CEM Organizing Committee Chair
Professor, Dean of the School of Art, Design and Architecture
University of Huddersfield, United Kingdom
The 2018 GLF-CEM meeting was held from May 17 to 18 at Stellenbosch University in South Africa.

Pre-Forum Events: May 16, 2018
The Forum was preceded by afternoon lectures delivered by four GLF-CEM members to post-graduate students on a topic of their choice. The lectures presented a valuable experience to our students to learn about international research and interact with international faculty.

Day 1: May 17, 2018
The first day of the Forum began with the introduction of our new members. This year, the Forum grew larger with participation from the USA, South Africa, and Australasia. The introduction of new members was followed by a session with presentations on teaching and research methods. An industry participant, Enzo Menegaldo (CEO of Haw & Inglis Construction), discussed potential gaps in teaching and research. In particular, young engineers must learn the skills and capacities required to solve problems to excel in industry. A broad exposure to the many aspects of the profession, including basic sciences, contracts, procurement, risks, and employee management, should also be emphasized. Finally, young engineers must develop a desire to learn and to engage in collaborative, team-based problem solving.

Day 2: May 18, 2018
The second day of the Forum consisted of a seminar, attended by GLF-CEM members and industry professionals, entitled “Disruptive Technologies on the Future of Construction.” The program was structured with presentations from two industrial practitioners and three GLF-CEM members from various world regions.

Speakers from industry encouraged academics to seize opportunities for enhancing change. Practitioners, together with academic institutions, should be continuously scanning the horizon to prepare themselves for the future.

As for the academic speakers, Professor Lucio Soibelman presented on a variety of new technologies and their impact on processes, methods, and procedures. Professor Koshy Varghese discussed how to make use of new technologies within the constraints of emerging countries, while balancing the need for new technologies with the need for the creation of employment opportunities. Finally, Professor Bargstädt from Bauhaus University presented a historical overview of technology development and implementation in university education.

The presentations were followed by a lively discussion, where participants from the floor participated in a discussion with the presenters. The opportunity to involve industrial participants in the GLF-CEM forum was most beneficial, providing exposure for industry to worldwide trends, while enabling researchers and academics to obtain valuable input from industry.

This session was followed by a presentation from the Trends Committee, established in Banff, Canada, in 2017, who reported on their progress.

In the final session of the workshop, GLF-CEM members were divided into two break-away groups to discuss aspects of disruptive technologies in construction. Current disruptive technologies were identified to include robotics (both nano and large-scale), augmented reality, virtual reality, BIM, remote sensing technologies, and 3D printing. As educators, we must teach and challenge our students to think about problems from a “disruptive technologies” perspective, enabling our students to capitalize on these advancements to create innovative solutions to problems. From a research perspective, academics should pursue unconstrained, disruption-focused solutions to problems, even if unfunded. Industry can address disruptive technologies by adopting at an earlier phase in the technology’s life cycle, immediately after a technology has been reasonably proven (i.e., cutting edge as opposed to bleeding edge).

Post-Forum Events: May 19, 2018
The Forum concluded with a closing dinner at the Neethlingshof Wine Estate outside of Stellenbosch and a full-day outing on to explore the Cape Peninsula.
Registration + Fees:
The 2019 Global Leadership Forum for Construction Engineering and Management Programs will be held at the University of Huddersfield from June 5 - 7, 2019.

Detailed registration information, fees, and speaker information available online.

Please visit conference website for more information.

2019 Event Program

Day 1: June 5, 2019
13:00 - 14:00 Lunch
14:00 - 15:00 Welcome Reception
15:00 - 18:00 Session 1
18:00 Reception Dinner

Day 2: June 6, 2019
10:00 - 10:30 Refreshments
10:30 - 12:30 Session 2
12:30 - 14:00 Lunch
14:00 - 15:30 Session 3
15:30 - 15:45 Refreshments
15:45 - 17:00 Session 4

Day 3: June 7, 2019
09:00 - 15:00 Cultural Tour (Optional Field Trip)

*Additional Costs Required

This event is sponsored by:

CIOB
CIB
International Council for Research and Innovation in Building and Construction
Huddersfield

Huddersfield is a large market town situated in West Yorkshire, England. It is the 11th largest town in the United Kingdom. It boasts a wide range of facilities and attractions as well as its football team, Huddersfield Town A.F.C. recently being promoted to the Premier League.

Situated in the largest county, Yorkshire, it is surrounded by superb scenery and landscapes, which are perfect for walking or cycling opportunities. To ensure you get that warm Yorkshire welcome, be sure to visit some of the small villages on the outskirts of Huddersfield where you will be able to take in the big skies and rolling hills.

After taking in the views at the Holmfirth Vineyard, visit the local Handmade bakery in Slaithwaite. Make the journey back through to Huddersfield to catch a show at the famous Lawrence Batley theatre.

Throughout the years, Huddersfield has been home to popular and famous festivals, including the Marsden Jazz Festival in October, the Huddersfield Literature Festival in March, and the Huddersfield Contemporary Music Festival in November, which featured this year an epic performance from Christian Marclay and a one-week exhibition in the heart of the town centre.

Many people associate Huddersfield as a textile town, being its primary export for many years. However, recent research has indicated that Huddersfield is transforming into a giant in the creative industries, with web design emerging as the number one export.

The closest cities are Manchester and Leeds, with excellent network links between both of them. Indeed, Huddersfield is situated just off the M62, which is a direct route to both cities.

Yorkshire

Yorkshire is the largest county in England, stretching from the North Sea Coast deep into the Pennine Mountains, and cutting off just before Manchester. A historic county, Yorkshire includes large cities such as York, Leeds, and Sheffield.

Manchester

Huddersfield is approximately 24 miles northeast of Manchester and has a direct train and bus to the city centre. Main attractions consist of the Science and Industry Museum, Manchester Art Gallery, and the National Football Museum.

Manchester is home to one of the UK’s largest and busiest airports, which operates more than 70 airlines that travel to over 210 destinations worldwide.

Leeds

Huddersfield is 14 miles southwest of Leeds and has direct links via the train and bus, which take between 20 – 40 minutes.

Leeds is fast developing city that has recently seen two large investments, with the Victoria Quarter hosting a range of luxury shops and the Trinity Shopping Centre featuring a cinema, restaurants, and high street shops.
KPI Initiative

The Trends Committee was established to address one of the key objectives of the GLF-CEM—to explore and report on the global trends in the construction engineering and management community. As a result, a KPI Committee was delegated to explore international key performance indicators (KPIs) in the areas of Industry, Program, Education, and Research. As reported earlier, the Committee on Key Performance Indicators has identified two KPIs each under the Industry category and the Program category. Presently, committee members are debating and exploring metrics that should be considered to collect data for analyzing the performance of the four KPIs, such that the data required for the metrics is readily available through public sources in the member countries. Our current progress is detailed as follows:

<table>
<thead>
<tr>
<th>KPIs</th>
<th>Current Progress</th>
<th>Committee Members</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INDUSTRY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Productivity</td>
<td>Exploration of which metrics can be identified under</td>
<td>T. Ng, M. Kumaraswamy</td>
</tr>
<tr>
<td>Safety</td>
<td>the two key performance indexes.</td>
<td></td>
</tr>
<tr>
<td>To be determined</td>
<td>Development of KPIs.</td>
<td>M. Kumaraswamy, G. Shen, T. Ng</td>
</tr>
<tr>
<td><strong>RESEARCH</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of student applications</td>
<td>Exploration of which metrics can be identified under the two key performance indexes.</td>
<td>M. Hastak</td>
</tr>
<tr>
<td>Employment rate of students by country</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To be determined</td>
<td>Development of KPIs using program introductions contributed by GLF-CEM members.</td>
<td>M. Kagioglou</td>
</tr>
<tr>
<td><strong>PROGRAM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To be determined</td>
<td>Development of KPIs.</td>
<td></td>
</tr>
<tr>
<td><strong>EDUCATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To be determined</td>
<td>Development of KPIs using program introductions contributed by GLF-CEM members.</td>
<td>M. Kagioglou</td>
</tr>
</tbody>
</table>

Each member of the KPI Committee is also independently engaged in research in this area. Jan Wium and his team in South Africa are exploring data collection, big data statistical analysis, and data mining. Their research has focused on data mining and data analytics for construction project documentation to aid in project management (as a pilot study). Several data mining methods, including similarity and distance, association pattern mining, cluster analysis, outlier analysis, classification and regression, and text mining, were explored to predict the number of employment opportunities that could be generated on road construction projects in South Africa. Their research in data mining and modeling has facilitated the (1) determination and demonstration of the applicability of large-scale information extraction from project documentation, (2) determination of the different levels of data required to improve the management of projects, and (3) reduction of the uncertainties within projects. More importantly, they found that varying levels of familiarity with programming languages of industry personnel did not pose a significant challenge in using big data, as resources exist to streamline the implementation of a data mining application.

Research conducted by Thomas Ng and his research team was initiated by the Construction Industry Council in Hong Kong. They have developed a set of their own KPIs to measure the performance of the local construction industry against that of other advanced economies. The industry KPIs in their study include (1) productivity, (2) safety, (3) environment, (4) manpower, (5) cost, (6) dispute resolution, (7) time, and (8) innovation. Additionally, they compared KPI trends with those in the United States, United Kingdom, and Singapore. They found that, due to the differences in the statistical data collection methods used in different countries, a direct comparison of the construction industry performance between the countries was not feasible. However, they were able to demonstrate that the safety performance of Hong Kong is improving over time, whereas the productivity and manpower indicated a declining trend. Their results suggest that greater adoption of modular construction and standardization is required, and the development of a stable construction environment to attract young talent to join the construction industry is needed.

Makarand Hastak’s research team at Purdue University has developed a protocol for systematic construction data collection and analytics that consists of six phases: (1) analysis of current business situation, (2) problem to be resolved, (3) understanding available data, (4) data refinement, (5) data analyses and modeling, and (6) interpretations and outcomes. The proposed protocol (i) leverages available data for analyses and effective decision-making by exploring the right questions, (ii) facilitates a standardized approach to data collection and analysis within an organization, and (iii) facilitates data collection and analyses at various levels including organizational, project, and process levels.

The KPI Committee is soliciting input!

We encourage members to share their research questions, results, and interests with the KPI Committee:

- **Professor Thomas Ng**
  The University of Hong Kong
  Hong Kong
  tsrng@hku.hk

- **Professor Makarand Hastak**
  Purdue University
  United States
  hastak@purdue.edu

- **Professor Mohan Kumaraswamy**
  The University of Hong Kong
  Hong Kong
  University of Moratuwa
  Sri Lanka
  mohan@hku.hk

- **Professor Jan Wium**
  Stellenbosch University
  South Africa
  janw@sun.ac.za

- **Professor Mikhail Kagioglou**
  University of Huddersfield
  United Kingdom
  M.Kagioglou@hud.ac.uk

- **Professor Geoffrey Shen**
  Hong Kong Polytechnic University
  Hong Kong
  bsqspshen@polyu.edu.hk
**First Attendance:**
2018 GLF-CEM in Stellenbosch, South Africa

**Ron Wakefield**
Dean, School of PCPM and Deputy PVC, Int.
School of Property, Construction and Project Management
RMIT University
Melbourne, Australia
ron.wakefield@rmit.edu.au

Prof. Wakefield researches and teaches at RMIT in the areas of process simulation and modeling, residential and commercial construction and uses of information technology in construction management. He has degrees in Civil Engineering, including a PhD and BE (Hon 1) from the University of New South Wales and an MSE from Princeton University. Prior to joining RMIT, Professor Wakefield was the William E. Jamerson Professor of Building Construction in the Department of Building Construction and the Associate Director for Building Technology Research at the Center for Housing Research, Virginia Tech. Professor Wakefield has over 22 years’ experience as an international researcher, consultant and engineer in building construction. He is a Director of Launch Housing and JJR Consulting and a coopted member of the Victorian Building Practitioners Board.

**First Attendance:**
2017 GLF-CEM in Los Angeles, USA

**Henry Koffman**
Professor, Director of CEM Program
Viterbi School of Engineering
University of Southern California
Los Angeles, CA, USA
koffman@usc.edu

Prof. Henry M. Koffman received a BSCE cum laude from the University of Southern California, an MSCE – Construction from Stanford University, and has 30 years of experience as a Real Estate Developer and General Contractor. Currently, he is a Professor and the Director of the Construction Engineering and Management Program at the University of Southern California. In addition to his academic role, Prof. Koffman serves as an Expert Witness for litigation support, as an Arbitrator for the American Arbitration Association, and is a member of many Dispute Resolution Boards.

**First Attendance:**
2016 GLF-CEM in Beijing, China

**Pingbo Tang**
Associate Professor
School of Sustainable Engineering and the Built Environment
Arizona State University
Tempe, AZ, USA
tangpingbo@asu.edu

Dr. Pingbo Tang, PhD, is an Associate Professor in Del E. Webb School of Construction at the School of Sustainable Engineering and the Built Environment at Arizona State University. He holds memberships to several professional organizations, including the TRB’s Committee on Bridge Management and ASCE’s Data Sensing and Analysis Committee (Committee Chair). He is an associate editor of ASCE’s Journal of Computing in Civil Engineering and is on the editorial board of Springer’s Journal of Innovative Infrastructure Solutions. He is the recipient of the 2013 Recent Alumnus Achievement Award from the Civil and Environmental Engineering Department at Carnegie Mellon University and a 2015 National Science Foundation CAREER Award. Dr. Tang’s research explores remote sensing, human systems engineering, and information modeling technology to support spatiotemporal analyses needed for effective diagnosis and management of construction sites, constructed facilities, and civil infrastructure systems. The National Science Foundation, Department of Energy, NASA, Salt River Project, DPR Construction, and Phoenix Government have funded his research efforts.

**First Attendance:**
2016 GLF-CEM in Beijing, China

**Sam Salem**
Professor, Department Chair
Sid and Reva Dewberry Department of Civil, Environmental, and Infrastructure Engineering
George Mason University
Fairfax, VA, USA
ossalem@gmu.edu

Dr. Salem has more than 30 years of professional and academic experience in construction engineering, project management, infrastructure asset management, and sustainable development. He serves on several boards and committees of many national and international organizations and on the editorial boards of 3 leading journals in his field. Dr. Salem has authored and co-authored over 120 peer-reviewed articles and technical reports, advised more than 70 graduate students, and generated research funding exceeding $10 million USD. He received several research and teaching awards from organizations in the US and abroad and has conducted research and consulting work for many national and international, public and private organizations. Dr. Salem’s research interests include accelerated construction of infrastructure, lean and green construction, project management, Public-Private Partnerships, smart infrastructure systems, sustainable development, lifecycle analysis, and infrastructure asset management.

**First Attendance:**
2015 GLF-CEM in Los Angeles, USA

**Pingbo Tang**
Associate Professor
School of Sustainable Engineering and the Built Environment
Arizona State University
Tempe, AZ, USA
tangpingbo@asu.edu

Dr. Pingbo Tang, PhD, is an Associate Professor in Del E. Webb School of Construction at the School of Sustainable Engineering and the Built Environment at Arizona State University. He holds memberships to several professional organizations, including the TRB’s Committee on Bridge Management and ASCE’s Data Sensing and Analysis Committee (Committee Chair). He is an associate editor of ASCE’s Journal of Computing in Civil Engineering and is on the editorial board of Springer’s Journal of Innovative Infrastructure Solutions. He is the recipient of the 2013 Recent Alumnus Achievement Award from the Civil and Environmental Engineering Department at Carnegie Mellon University and a 2015 National Science Foundation CAREER Award. Dr. Tang’s research explores remote sensing, human systems engineering, and information modeling technology to support spatiotemporal analyses needed for effective diagnosis and management of construction sites, constructed facilities, and civil infrastructure systems. The National Science Foundation, Department of Energy, NASA, Salt River Project, DPR Construction, and Phoenix Government have funded his research efforts.

**First Attendance:**
2018 GLF-CEM in Stellenbosch, South Africa

**Ron Wakefield**
Dean, School of PCPM and Deputy PVC, Int.
School of Property, Construction and Project Management
RMIT University
Melbourne, Australia
ron.wakefield@rmit.edu.au

Prof. Wakefield researches and teaches at RMIT in the areas of process simulation and modeling, residential and commercial construction and uses of information technology in construction management. He has degrees in Civil Engineering, including a PhD and BE (Hon 1) from the University of New South Wales and an MSE from Princeton University. Prior to joining RMIT, Professor Wakefield was the William E. Jamerson Professor of Building Construction in the Department of Building Construction and the Associate Director for Building Technology Research at the Center for Housing Research, Virginia Tech. Professor Wakefield has over 22 years’ experience as an international researcher, consultant and engineer in building construction. He is a Director of Launch Housing and JJR Consulting and a coopted member of the Victorian Building Practitioners Board.
Prof. David Root is the Head of School at the Wits University’s School of Construction Economics and Management from 2011. Previously, he was Associate Professor and Senior Lecturer in the Department of Construction Economics and Management at the University of Cape Town, which he joined in 2003. He originally trained as a Chartered Building Surveyor, working in both private practice and client organisations in the UK before entering academia. David graduated in Building Surveying from Salford University and gained his Masters and PhD in Construction Management from the University of Bath. He held a post doctoral appointment at Loughborough before joining UCT and has published over 90 journal and conference papers over his career. He is a Fellow of the RICS and CIOB and is registered with the SACPCMP as a Construction Project Manager in South Africa.

First Attendance:
2018 GLF-CEM in Stellenbosch, South Africa

Hanbin Luo
Deputy Dean of School, Department Director
Construction Management Department, School of Civil Engineering and Mechanics
Huazhong University of Science and Technology
Wuhan, China
luohbcem@hust.edu.cn

Prof. Luo Hanbin, PhD, is a Professor, Deputy Dean of the School of Civil Engineering and Mechanics, and Director of the Department of Construction Management at the Huazhong University of Science and Technology. Prof. Luo has received numerous award and honors in recognition of his investigation of key technologies of computer-integrated management systems for rail transit construction, integrated management of large construction enterprises, application of post-evaluation system for urban infrastructure and public service. He is the recipient of the 2014 National Science and Technology Progress Award (2nd Prize), the 2012 Ministry of Education Science and Technology Progress Award (1st Prize), and the 2010 Hubei Province Science and Technology Progress Award (1st Prize) and has made notable contributions in the areas of digital construction, construction safety, and construction project management.

First Attendance:
2018 GLF-CEM in Stellenbosch, South Africa

Prof. Zoubeir Lafhaj, PhD, is a full Professor at Ecole Centrale de Lille, the former Dean of International Relations (2008-2015), and a member of the of the School’s Executive Committee. He has been involved in the Local Agenda 21 (Sustainable Development) since its foundation and leads a research team of five PhDs and three Postdoctoral Fellows in the LabMCube (Multiphysics and MultiScale Mechanics Laboratory). His research focuses on polluted sediments and their characterization, thermal problematic materials, and building in the strategic energy context. Prof. Lafhaj has developed a strong network with industry that aims to transfer technology and knowledge within R&D projects and clusters. He has received two Labels from French Ministries (Industry, Economy, and Employability) for two projects. Currently, he is launching an Industrial and Research Chair in partnership with Bouygues Construction Group, entitled “Construction 4.0,” which proposes advanced solutions for envisioned construction practice.

First Attendance:
2016 GLF-CEM in Beijing, China
Since 2011, the GLF-CEM has been open to persons involved in construction engineering and management programs around the world. To date, our membership is comprised of 85 members from 66 institutions in 19 countries.
The Division of Construction Engineering and Management (CEM) at Purdue University was established in 1976 as an independent academic unit within the College of Engineering that offers an ABET accredited degree in Construction Engineering. There are only seventeen ABET-accredited undergraduate construction engineering programs in the United States and under 30 in the world. While no national or international rankings are conducted for such a small number of programs, the Purdue CEM Division’s construction engineering program is one of the four oldest in the nation and is regarded as a leader among the construction engineering programs. We offer an experiential program that blends theoretical and practical concepts in construction engineering through three 12-week paid internships and pedagogical curricular innovations that integrate community engagement in the learning process. Specifically, the division (1) recruits and retains the best students into CEM who will one day lead the world’s construction and engineering companies, (2) engages in multi-disciplinary research to find innovative solutions to issues facing the construction industry, and (3) provides teaching excellence through continuous improvement in the curriculum to integrate pedagogical innovations and current topics of interest.

The vision of the CEM program at Purdue University is to be the premier construction engineering program while the mission is to be a global leader in Construction Engineering and Management by producing engineering leaders proficient in all aspects of project development and execution. To achieve the vision and mission, the division focuses on four strategic areas: Division, Teaching, Research, and Service.

Our requirement for three progressive internship experiences positions students among those most sought after by industry upon graduation, resulting in a 100% placement through almost the entire history of the program. Over the past 40+ years, we have built an extensive network of industry partners that work with us to train and develop our students as proficient construction engineers. We are currently developing a Professional Masters Program in Construction Engineering that should be available soon. As a leading Construction Engineering and Management program, we offer a collegial and intellectual environment that nurtures growth in discovery, learning, and engagement.

The CEM faculty collectively has a breadth of experience and expertise that includes engineering design, construction engineering and management, project and program management, and facility management. A sample of the higher-level elective courses taught by specific individual faculty members may include equipment selection and utilization, infrastructure planning, design of temporary structures, facility engineering and management, underground infrastructure, infrastructure analytics, lean principles, building information modeling, and engineering for inland waterway navigation.

FACULTY

Dr. Makarand Hastak is Professor and Head of Construction Engineering and Management
Dr. Dulcy Abraham is a Professor in Civil Engineering
Dr. Philip Dunston is a Professor in Civil Engineering and Director of the Advanced Construction Systems Laboratory
Dr. Hubo Cai is an Associate Professor of Civil Engineering and Construction Engineering and Management
Dr. Theodore Weldner is an Associate Professor of Engineering
Dr. Robert Patty is an Associate Professor the Beavers Heavy Construction Distinguished Fellow

https://engineering.purdue.edu/CEM/people

RESEARCH AREAS

- Disaster mitigation
- Modeling of infrastructure interdependencies
- Capital rehabilitation planning
- Underground infrastructure construction and management
- Rapid improvement disciplines
- Facility engineering and management
- Data analytics
- Spatial modeling for the built environment
- Field sensing
- Profitability and risk
- Intelligent Planning Units (IPUs)
- Process Simulation
- Visualization

THE DIVISION OF CONSTRUCTION ENGINEERING AND MANAGEMENT AT PURDUE UNIVERSITY

FOCUS ON PROGRAMS
Interested in GLF-CEM membership?

Individual membership is open to persons who are involved in construction engineering and management programs. Institutional and practitioner memberships are also available. Elections will take place at the 2019 GLF-CEM, in Huddersfield, UK.

Applicants for membership must have demonstrated a record of involvement in a construction engineering management educational program, preferably as a full professor or as an administrator.

Click here to learn more or to begin your membership application today.

Or, just want to attend?

Individuals may also choose to attend the GLF-CEM as an observer. If you are interested in participating in one of our events or are interested in learning more about the GLF-CEM, please click here.
Have something to share?

The GLF-CEM Committee wants to hear from you.

We are looking for announcements, opinion pieces, images, and research highlights to include in our next issue. Have something to share? Click here.

And don’t forget to let us know how we’re doing—click here to take our short survey.