Dr. Prashant Kumar is currently working as a Professor and Chair in Air Quality & Health, Director, Global Centre for Clean Air Research (GCARE) in the Department of Civil and Environmental Engineering at the University of Surrey (UK). He obtained a PhD from University of Cambridge (UK) and a master degree (M.Tech) in Environmental Engineering and Management from the Indian Institute of Technology Delhi (India). He was awarded Cambridge Nehru Scholarship and Overseas Research Scholarship Award for pursuing his PhD research. Prior to his M.Tech, he worked in India for a research Institute for 5 years and in construction industry for about 2 years. Prashant’s research is focused on three key areas: (i) airborne nano/ultrafine particles and aerosols, (ii) urban air quality, and (iii) wind engineering. His research has acclaimed international recognition resulting in over 120 articles in top-ranked journals, winning awards at various international conferences for his outstanding academic performance and research contributions. He has obtained over €3.5 million of individual research funding from numerous UK (e.g., ESPRC, ESRC) and international funding bodies (e.g., EU H2020, QNRF). His h-index is 26 and h10-index 56, his articles have received in excess of 2400 citations.

Prashant is a reviewer for over 20 peer-reviewed international journals. He is currently serving as an executive editor for the Journal of Civil & Environmental Engineering, besides acting as an editorial board member for the five journals including Science of the Total Environment.

Prashant is currently serving as aICE Air Pollution Task Force Panel Member for London (February 2016-September 2017) and was Expert Group Member on Urban Nexus for United Nations. He was awarded FEPS “Researcher of the Year 2016” as well as Vice-Chancellors Award for Research (2016) for his outstanding research contributions to the University of Surrey.

About NITK
National Institute of Technology Karnataka (NITK) Surathkal is located in Mangalore (also called Mangaluru) City, Karnataka State, India. NITK is a centrally funded technical institute and was established in the year 1960. NITK is a premier institution engaged in imparting quality technical education and providing support to research and development activities. NITK is recognized as an institute of national importance by an act of Indian parliament. NITK has carved a niche for itself among the best technical institutions in India. NITK has been consistently ranked among the top ten technical institutions in the country. Today, the institute offers 9 undergraduate, 27 post graduate and doctoral programmes in all its 14 Departments and is making significant advances in R&D and outreach activities. NITK is probably the only institution in the country which can boast of its own beach.

About the Department
The Department of Civil Engineering is the one of the oldest departments of this institute, which established in the year 1960. The department presently offers one B.Tech, six post graduate and doctoral programmes in various disciplines. The department has well experienced faculty, skilled technical staff and well equipped laboratories. It is recognised QIP centre for training of faculty from other engineering colleges and polytechnics. The department has been always in the forefront in taking up R&D initiatives and industrial consultancy assignments.

For more information:

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NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL, MANGALORE – 575025

Course on

Construction Pollution and Management
12-16 February, 2018
Call for Registration and Participation

Resource Person
Prof. Prashant Kumar
Professor and Chair in Air Quality & Health,
Director, Global Centre for Clean Air Research (GCARE)
Department of Civil & Environmental Engineering,
University of Surrey, Guildford GU2 7XH, UK

Course coordinator
Dr. Bibhuti Bhusan Das
Organised by
Department of Civil Engineering
National Institute of Technology Karnataka, Surathkal,
Mangalore-575 025 Karnataka, India
Course Overview

Construction industry is one of the leading contributors of climate (e.g., greenhouse gases) and health (e.g., particulate matter) emissions to the atmosphere. In addition, it is also responsible for the air, water and noise pollution of the surrounding environment. However, not much attention is being given to date to understand the associated pollution and relevant measures. It is worth noting that majority of construction sites generate high levels of dust (typically from concrete, cement, wood, aggregates), which disperses to large distances with the wind, over a long period of time, to affect people at site, passers-by and those living in their surroundings.

It is reported that construction activities produces dust in the form of PM10 (particulate matter less than 10 microns in diameter) and PM2.5 (particulate matter less than 2.5 microns in diameter); the latter is usually invisible to the naked eye. Research has shown that these particles penetrate deeply into the lungs and cause a wide range of health problems including respiratory illness, asthma, bronchitis and even cancer.

Considering this in point of view, this course is designed based on a research-oriented teaching approach to give a basic idea on the causes of construction site pollution, assessment methods and their mitigation. International expert(s) with demonstrated credentials in teaching, research, consulting, and training will be part of the course to deliver lectures, and discuss various case studies and real life experience. The course will be planned and offered as per the norms set by NITK Surathkal.

Course Objectives

Successful completion of the course will lead to the following learning outcomes. Using a research-oriented teaching approach, this cross-disciplinary course will provide with:

- Pollution sources at construction sites
- Emerging pollutants from construction sources
- Exposure assessment methods
- Pollution and exposure mitigation at construction sites

Topics to be covered

Sources of pollution at construction sites and associated emissions, Wind flows and pollution dispersion, Exposure assessment and mitigation methods, Real-world case studies.

Who can participate?

Executives, engineers (government, PSU and Private) and researchers from manufacturing, service and government organizations including R&D laboratories.

Students at all levels (B.Tech/M.Sc/M.Tech/Ph.D) or Faculty from academic institutions and technical institutions.

Registration Process

Stage-1: Web Portal Registration: Visit http://www.gian.iitkgp.ac.in/GREGN/index and create login User ID and Password. Fill up the blank registration form and do web registration by paying Rs. 500/- online through Net Banking/Debit/Credit card. This provides the user with life time registration to enrol in any number of GIAN courses offered.

Stage-2: Course Registration: Login to the GIAN portal with the user ID and Password already created in Step 1. Click on Course Registration option at the top of Registration form. Select the Course titled “Concrete: Microstructure Characterisation” from the list and click on Save option. Confirm your registration by clicking on Confirm Course.

Selection and Mode of Payment

On registration in the course, selected candidates will be intimated through e-mail. They have to remit the required course fee through DD drawn in favour of Director, NITK Surathkal, payable at Surathkal.21

In addition to the above fee, one-time online fee of Rs. 500/- is to be paid for registration in the GIAN web portal. (See registration process stage 1)

Registration/Course Fee (Non-refundable)

Participants from abroad: US $ 100 (students), US $ 200 (others)
Industry/ Research Organizations: Rs. 5000/-
Academic Institutions: Rs. ₹ 1500 (students), Rs. ₹ 3000 (others)

Note: Maximum number of Participants: 50 (Participants will be selected on first-cum-first serve basis). The Registration fee includes instructional materials and tutorials.

Accommodation

Out station participants can be provided accommodation in the Institute Guest Houses (limited accommodation on first-cum-first serve basis) inside the campus on direct payment. The Registration fee does not include lodging and boarding.

Host Faculty/Course coordinator

Dr. Bibhuti Bhusan Das is currently serving as Assistant Professor at National Institute of Technology Karnataka, Surathkal since May 2015. Prior, he was serving as a Senior Associate Professor and Centre Head at National Institute of Construction Management and Research (NICMAR), Goa campus. He has been working as a Post-Doctoral Research Associate and Adjunct Professor in the Department of Civil Engineering at Lawrence Technological University, Southfield, Michigan, USA. His area of research includes project management, green construction management, microstructure characterization of materials, non-destructive testing of concrete structures, corrosion of reinforcement and durability studies on concrete.
National Institute of Technology Karnataka, Surathkal
MHRD Scheme on Global Initiative for Academic Networks (GIAN)
Advance Level Course
On
“Construction Pollution and Management”
Duration: 12-02-2018 to 16-02-2018

Registration Form

1. Name of applicant: ____________________________________________________

2. Designation & Department: ____________________________________________

3. Mailing Address: ________________________________________________________
________________________________________________________________________
________________________________________________________________________
(Mobile): __________________________

5. Email: ________________________________________________________________

6. Qualification: __________________________________________________________

7. Experience: Teaching: ______________________ and Industrial: ________________

8. Comment on your exposure: ____________________________________________

9. Fee Payment Details
Amount Rs: _______________________ Demand Draft No.: _______________________
Bank: _____________________________ and Date: _____________________________

10. Category of participants:
[ ] Faculty/Student/Research scholar of NITK
[ ] Faculty/Student/Research scholar of Outside NITK
[ ] Industry/Research Organizations

11. Require accommodation Facility? : Yes / No

I agree to abide by the rules and the regulations governing the GIAN–MHRD Course and I will attend the course for entire duration.

Place: 
Date: 

Signature of the applicant

Note: 1. Filled registration form with Demand Draft should be send to the course coordinator.
2. Demand draft drawn in favour of Director, NITK Surathkal, payable at Surathkal