

Workshop

# Dioxin India 2019

Organized by CSIR-NIIST, Thiruvananthapuram



## Date

19<sup>th</sup> to 21<sup>st</sup> Feb 2019

## Location

CSIR-National Institute for Interdisciplinary Science & Technology (CSIR - NIIST), Thiruvananthapuram, India

## Organized by



CSIR – National Institute for Interdisciplinary Science and Technology (CSIR - NIIST)  
Council of Scientific & Industrial Research (CSIR), Govt. of India, Industrial Estate, P.O., Pappanamcode, Thiruvananthapuram - 695019

## Workshop Fees

Rs. 20,000/- (Including GST)

*Welcome to the 2<sup>nd</sup> Annual Dioxin India Conference organized by CSIR-NIIST, Thiruvananthapuram.*

Polychlorinated dibenzo-p-dioxins (PCDDs), polychlorinated dibenzofurans (PCDFs), and dioxin-like polychlorinated biphenyls (DL-PCBs) are polychlorinated aromatic compounds linked to developmental problems, immune system damage, and cancer. If no precaution are taken, they can be released into the environment during industrial processes such as metallurgy and waste incineration before accumulating in the food chain. Improper disposal of waste PCB-based industrial oils, may also result in the release of dioxins into the environment or can directly contaminate human food and animal feed supplies.

The periodic monitoring of dioxins from industrial stack & residues, ambient air and emission factor determination from various uncontrolled sources such as open burning of municipal solid wastes is extremely critical in POPs control and elimination. It is also important to perform dioxin testing on food samples including meat, dairy and fish, according to national or international regulations. Such testing needs to detect these compounds at very low levels and there is a need for greater testing capacity in control labs because of the increasingly global nature of the food supply chain and especially when a crisis occurs.

We Invite you to attend this exclusive 3 days workshop and learn from the vast experience of our guest speakers on Advanced training in sampling, sample preparation, regulation and quantification of dioxins, furans & PCBs.

**About CSIR-NIIST:** The National Institute for Interdisciplinary Science and Technology (NIIST), Thiruvananthapuram, is a constituent Laboratory of the Council of Scientific and Industrial Research (CSIR). Initially established in 1975 as a CSIR Complex, it was named as the Regional Research Laboratory in 1978 and later renamed as NIIST in 2007. Currently, NIIST is engaged in R & D programs in areas related to Agro-processing and technology, Chemical Sciences and technology, Materials Science and Technology, Microbial processes & technology, Environmental Technology. The institute has established state-of-the-art facilities for conducting advanced research in the areas of interest. Pilot plant facilities for research training and process/product development in the areas of spices and oilseeds have been established. The institute has also been playing a significant role in Human Resource Development by training post graduate/graduate students, with over 252 Ph.D degrees awarded till date, based on research conducted in the institute. For brief description of the activities [Click Here](#)

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### 19<sup>th</sup> Feb 2019

#### Day 1 Agenda

- 11:00 AM Welcome and Introductions – *Dr. K.P. Prathish Scientist CSIR - NIIST*
- 11:25 AM Analytical Aspects of understanding Dioxins – *Chandrasekar Kandaswamy, Agilent*
- 12:00 PM India Perspectives on Dioxin Analysis & Monitoring : Food & Export Market - *Dr. Anoop Krishnan, Assistant Director, Export Inspection Agency, Kochi*
- 01:00 PM Lunch Break
- 02:00 PM Isokinetic stack sampling, theory, practice & troubleshooting - *Shri. Abhijit Pathak, Scientist, Central Pollution Control Board*
- 03:30 PM Tea Break
- 04:00 PM Dioxin – India : Role of CSIR-NIIST - *Dr. K.P. Prathish Scientist CSIR - NIIST*
- 05:00 PM Sampling Strategies Onsite Demos for : Isokinetic & Ambient air sampling - *Dr. Joshy George, Sr. Technical Officer, CSIR-NIIST*
- 06:00 PM End of Program for Day 1

### 20<sup>th</sup> Feb 2019

#### Day 2 Agenda

- 09:00 AM Summary Day 1 & Introduction to Sample Preparation Strategies - *Dr. K.P. Prathish Scientist CSIR - NIIST*
- 09:30 AM Semi-automated sample clean up by LCTech - *Ms. Angelika Köpf, Head of Sales LCTech GmbH, Germany*
- 10:30 AM Tea Break & Group Photo
- 11:00 AM Sample preparation techniques : On spot demonstration - Semi automated & Manual cleanup for food and environmental samples (one each) - *Dr. K. P. Prathish, Scientist, CSIR-NIIST*
- 12:30 PM Lunch Break
- 01:30 PM GC/MS/MS method parameter optimization for dioxin : Selectivity, MRM optimization, Sensitivity, Retention Time locking – *Chandrasekar Kandaswamy, Agilent*
- 03.30 PM Tea Break
- 03.45 PM Standard preparation & preservation - *Dr. K. P. Prathish, Scientist, CSIR-NIIST*
- 04.45 PM End of Program for Day 2

### 21<sup>st</sup> Feb 2019

#### Day 3 Agenda

- 09:30 AM Summary Day 1 & Day 2
- 10:15 AM Tea Break
- 10:45 AM Validation data on Fish & Sediment samples : On spot demonstration of validation criteria as per EU644/2017 – *Chandrasekar Kandaswamy, Agilent*
- 01:00 AM Lunch Break
- 01:45 PM Dioxins Reporting - *Dr. K. P. Prathish, CSIR-NIIST, Chandrasekar K, Agilent*
- 02:15 PM Trouble Shooting Session GC/GCMS & Dioxins Sample Prep – *Chandrasekar Kandaswamy, Agilent*
- 03.00 PM Tea Break, End of Program & Certificate Distribution

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(CSIR), Govt. of India,  
Industrial Estate, P.O.,  
Pappanamcode,  
Thiruvananthapuram -  
695019

## Payment Details

Bank Account Details	Dioxin India 2019
Name of Account Holder	Director, CSIR-NIIST, Thiruvananthapuram
Institution Account Name	(NIIST) Regional Research Laboratory
Account Number	670 477 238 25
IFSC Code	SBIN0070030
Bank Name	SBI
Branch Name	Industrial Estate
Complete Branch Address	Pappanamcode, Thiruvananthapuram, Kerala 695019
Account Type	Savings

**Workshop Fees : Rs. 20,000/- (Including GST)**

## Instructions for Payments:

Workshop Fees includes meals, refreshments, study materials & participation certificate for the program.

Accommodation is not included in the workshop fees, but we can help participants find suitable accommodation on first cum first serve basis. All charges for accommodation have to be settled directly by participants.

Registration for the workshop will only be confirmed by NIIST on email on first cum basis. All payments have to be done after receiving the registration confirmation email from NIIST and a payment confirmation email from the participant has to be sent for blocking your seat in the workshop.

Registration request format:

**First Name (As required on certificate):**

**Last Name: (As required on certificate):**

**Organization/ Institute Name:**

**Organization/ Institute Complete Address:**

**Email Address:**

**Mobile Number:**

**Do you need help with accommodation for the workshop : Yes/ No**

All payment confirmations and payment transfer number & registration request emails have to be emailed to [rohit.shinde@agilent.com](mailto:rohit.shinde@agilent.com) & [prathishkp@niist.res.in](mailto:prathishkp@niist.res.in)

Please include **“Registration Fees for Dioxin India 2019”** as comments for all online payments.

For any further details, please feel free to contact:

Rohit S. Shinde | [rohit.shinde@agilent.com](mailto:rohit.shinde@agilent.com) | +91-9599442872

Dr. Prathish KP | [prathishkp@niist.res.in](mailto:prathishkp@niist.res.in) | +91-9447798707

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