National Association for Clean Air

REMINDER

Introduction to Air Dispersion Modeling

A 3-day introductory course and practical aspects of setting up and operating the AERMOD Dispersion Model Software

Certificate of Attendance

11 – 13 JUNE 2018 - CENTURION, GAUTENG

Dates:	**11 – 13 June 2018, as per the attached schedule.** Due date for submission of essays: TBA during Course
Venue:	Mc Pharma Conference Centre, 62 Constantia Street (displayed as Bogosi Street on Google Maps) Mnandi, Centurion, Gauteng
Times:	Daily 09:00 – 16:30
Instructors:	Prof Stuart Piketh (stuart.piketh@nwu.ac.za), North-West University Dr Roelof Burger (burger.roelof@nwu.ac.za), North-West University
Who should attend:	South Africa has legislated air dispersion modeling as an accepted tool for managing components of air quality. Applications include; understanding current source receptor relationships, explaining ambient air quality standards exceedances, predicting impacts from existing and planned emissions sources and siting ambient air quality monitoring stations. Dispersion modeling is an important tool used by government (the Regulator), industry, consultants and researchers to assess and evaluate the aforementioned air quality challenges. This course will teach participants a basic understanding of the theory of dispersion modeling as well as providing hands on training with AERMOD Dispersion model. This course will be followed later in the year by a course in Advanced dispersion modeling presented by one of the world's experts, Jesse Scire. This course will be useful for people in government who assess EIA's and air quality management plans and reports that include air dispersion modeling, environmental managers in industry that undertake or out-source dispersion modeling, consultants who would like to start doing dispersion modeling in-house and finally researchers who work in the field of air quality management.
After completing this course, participants should be able to:	• Describe the characteristics that influence the transport of pollutants through the atmosphere. • Outline the theoretical principles of atmospheric dispersion modeling. • Discuss the different types of atmospheric dispersion models. • Identify the limitations of atmospheric dispersion models. • Use Aermod to model the dispersion of simple cases.
Participation:	A maximum of 20 participants will be accepted. The organisers reserve the right to select applications on the basis of an applicant's prior experience and qualifications. The organisers reserve the right to cancel the course should the required minimum number of participants (10) not be met.
Certification:	Participants will be given a Certificate of Attendance. There will be no formal competency testing.
Registration:	Complete the form below and return to Bev Terry at bev@naca.org.za. Participants will be notified by email of acceptance on the course.
Closing date:	You are kindly requested to submit a completed application form to us **by Friday, 18 May 2018**. NACA reserves the right to cancel the course should fewer than 10 participants register.
Costs:	**Standard fee R10,500.00** (excluding 15% VAT) per participant. Fee includes participation in the course, a full set of printed notes, a memory stick with presentations and certificate. Morning and afternoon tea, and daily lunches will be provided.

Payment:	Payment should be made to the National Association for Clean Air on receipt of invoice. Proof of Payment by EFT of official company purchase order must be submitted to Bev Terry before the commencement of the course. Submission of registration form and acceptance of participation constitutes a contract. Fees are non-refundable for no shows as well as cancellations within seven days, or less, of the start of the course.
Banking details:	National Association for Clean Air; ABSA Bank; Account Number: 1041470808; Branch Code: (Rosebank Central) 632005
Cancellation:	Cancellations **after Monday, 21 May 2018** will be liable for the full fee.
Accommodation:	Bev Terry can recommend appropriate accommodation in the vicinity for out of town delegates.
Enquiries:	Bev Terry, Course Coordinator, at 071 683 9770 or bev@naca.org.za
Course content:	**Please see the attached file**

Registration Form
Introduction to Air Dispersion Modeling Course
11 – 13 JUNE 2018
CENTURION, GAUTENG

Surname:				
First Name:			Title:	
SA ID number or Passport No.				
Company/Organisation:				
Designation:				
Person responsible for payment:				
Company VAT Number:				
Postal Address:				
Postal Code:				
Fax:	Tel:			
Cell:	E-mail			
Highest educational qualification: (Please tick the appropriate box)	Matric	BSc		BSc Hons
	MSc	Other: (Specify)		
Current job description				

Previous years and level of experience in air quality management or atmospheric sciences?

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I wish to attend the Air Dispersion Modeling Course @ **R10,500 Excluding 15% VAT**

Name of person or institution responsible for paying the account:……………………………………………………………..

I acknowledge that in submitting the above registration that I / (company named above) hold ourselves liable for the full fee for the course registration, if not cancelled before the specified **date (21 May 2018).**

Please issue an official invoice to **(Name of person and/or institution responsible for paying the account)**: ……………………………………………………………………………………………………..

Signature:	Name & Surname(Block letters)
Date:	Designation:

An invoice will be issued by the National Association for Clean Air on request.

Please return to*: Bev Terry, Course Coordinator, NACA,

P O Box 8370, Halfway House, 1685 or email/FAX to 0865137490

E-mail: bev@naca.org.za Cell: 071 683 9770.

Introduction to Air Dispersion Modeling
PROVISIONAL COURSE SCHEDULE AND CURRICULUM
Course meeting times are normally 09:00 to 16:30 daily

DAY 1: Monday	08:30 – 09:00	Registration
	09:00 - 09:45	Use of air dispersion models
	09:45 - 10:30	Type of dispersion models
	Tea break	
	11:00 - 12:30	Practical: Review of emission license applications
	Lunch	
	13:30 - 14:30	Discussion: Use and limitations of air dispersion models
	Tea break	
	15:00 - 15:45	Atmospheric chemistry
	15:45 - 16:30	Monitoring air quality
DAY 2:: Tuesday	08:30 – 09:00	Arrival Tea & Coffee
	09:00 - 09:45	Characteristics that influence the transport of pollutants
	09:45 - 10:30	Meteorological input for dispersion modeling
	Tea break	
	11:00 - 11:45	Emissions inventories
	11:45 - 12:30	Practical: Calculating emission factors
	Lunch	
	13:30 - 14:30	Practical: Screening models
	Tea break	
	15:00 - 15:45	Discussion: Screening models
	15:50 - 16:30	Setting up dispersion models
DAY 3: Wednesday	08:30 – 09:00	Arrival Tea & Coffee
	09:00 - 09:45	Overview of the Aermod model
	09:45 - 10:30	Practical: Running Aermod
	Tea break	
	11:00 -1 2:30	Practical: Running Aermod
	Lunch	
	13:30 - 14:30	Guidelines for good modeling practice
	Tea break	
	15:00 - 16:15	Discussion: Practical aspects of dispersion modeling
	16:15 - 16:30	Course review and evaluation