

Ontar Corporation

Suggested Workshop Agenda

June 5-8th 2018

The goal of the workshop is to help you solve your problems using software tools with emphasis on PcModWin ®/MODTRAN®. We will use PcModWin6, however the discussions will apply equally well to users of older versions such as PcModWin5 and PcModWin4, The workshop will cover both basic model calculations and advanced capabilities such as detailed aerosol modeling. **Customers are encouraged to bring their specific scenarios and share them with the group.** At this time, we encourage your ideas on additional topics to discuss.

1st Day

0900 - 0915	Introductions	
0915 - 1030	Overview of Models - MODTRAN/PcModWin (versions 5 & 6) - FASCODE/PcLnWin - HitranPC, - LidarPC, - NVTherm/NVESD IPM	
1030 - 1045	Break	
1045 - 1215	Introduction to PcModWin/MODTRAN - Overview, features & limitations, geometry etc.	
1215 - 1330	Lunch	
1330 - 1500	Solving basic PcModWin/MODTRAN test cases - Inputs, outputs, plots etc.	PcModWin Express
1500 - 1515	Break	
1515 - 1645	Solving problems with MODTRAN and Informal discussion and question/answer period	

2nd Day:

0845 - 1030	PcModWin®/MODTRAN® Model Capabilities cont - band models, model atmospheres, custom atmospheres, aerosols, clouds, fog, etc.	
1030 - 1045	Break	
1045 - 1215	PcModWin®/MODTRAN® Model Capabilities cont. - solar/lunar scattering, radiance	

Alternate: Attendees' specific topics

1215 - 1330 Lunch

1330 - 1500 Solving PcModWin/MODTRAN test cases
- Inputs, outputs, plots etc.

PcModWin Standard

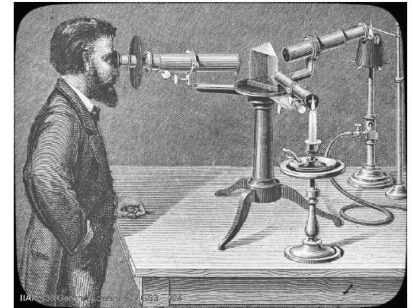
1500 - 1515 Break

1515 - 1645 Solving problems with MODTRAN and advanced aerosol modeling

17:30 -

All Ontar Workshop attendees are invited to an evening social at the IIAH for food, beer, wine, and tours of special collections and exhibits.

Institute for Industrial
IIAH
Art and History



CONTACT ASHARPE@ONTAR.COM TO RESERVE YOUR SPACE! Space is limited!

3rd Day:

0845 - 1015 Advanced MODTRAN inputs
- inputs, outputs, etc.

1015 - 1030 Break

1030 - 1200 Advanced MODTRAN Test Cases **PcModWin Pro**

Alternate: Attendees' specific topics

1200 1300 Lunch

1300 - 1430 HITRANPC, LIDARPC, NVTherm/NVESD IPM

1430 - 1445 Break

1445 - 1600 Other models continued

Alternate: Attendees' specific topics

1600 - 1630 Informal discussion and question/answer period

4th Day: Imaging sensor design

0845 - 1030	History of imaging system design
1030 - 1045	Break
1045 - 1215	Ratches model, FLIR92, NVTherm, NVThermIP, NVIPM How sampling theory affected model evolution
1215 - 1330	Lunch
1330 - 1500	Imaging system chain analysis (MTF analysis) How atmospheric transmission affects the signal to noise ratio
1500 - 1515	Break
1515 - 1645	System design – the importance of the atmospheric transmission MWIR/LWIR design SWIR design and natural illumination

** This is a possible agenda, and somewhat “formal”. It can certainly be more informal e.g. start with the first PcModWin/MODTRAN input screen and work our way through to the end. We can also put more emphasis on solving specific problem, and less on the “theory”.

