



23rd Industrial Mathematical and Statistical Modeling Workshop
16-27 July 2017
SCHEDULE

Sunday, 16 July

5:00-7:00 pm Welcome Reception Dinner in Talley Student Union's Bistro Rm# 4280 (2610 Cates Ave)

Monday, 17 July: Building Software in Teams (1102 SAS)

8:00-9:00 am Group Mini breakfast (4104 SAS)
9:00-10:30 am Interactive Session (1102 SAS)
10:30-10:45 am Break
10:45-12:00 noon Interactive Session (1102 SAS)
12:00 -1:00 pm Individual (not group) Lunch (4104 SAS)
1:00-2:30 pm Interactive Session (1102 SAS)
2:30-3:00 pm Break
3:15-5:00 pm Interactive Session (1102 SAS)
5:00 pm-UNTIL Individual Dinner.

Tuesday, 18 July (see separate detailed page)

8:00-9:00 am Group Mini breakfast (4104 SAS)
9:00-11:35 am Problem presentations (1102 SAS)
11:35-12:00 noon Group photo
12:00-1:30 pm Individual Lunch (4104 SAS)
1:30-2:30 pm Career Fair (4104 & 4201 SAS)
2:30-4:45 pm First Working Sessions with teams
4:45-4:50 pm Meet in SAS Lobby
5:00-7:00 pm Group Dinner at Mitch's (2426 Hillsborough Street)

Wednesday and Thursday, 19 and 20 July

8:00-9:00 am Group Mini breakfast (4104 SAS)
9:00am-UNTIL Working sessions (Individual Lunch and Dinner)

Friday, 21 July

8:00-9:00 am Group Mini breakfast (4104 SAS)
9:00am-5:30pm Working sessions (Individual Lunch)
6:30-9:30 pm Group Mediterranean Dinner + Movie in Talley Student Union's Bistro Rm# 4280 (2610 Cates Ave)

Saturday and Sunday, 22 and 23 July

Working sessions as decided by each group. (All weekend meals are individual)

Monday and Tuesday, 24 and 25 July

8:00-9:00 am Group Mini breakfast (4104 SAS)
9:00am-UNTIL Working sessions (Individual Lunch and Dinner)

Wednesday, 26 July

8:00-9:00 am Group Mini breakfast (4104 SAS)
9:00-11:30am Working sessions
12:00pm Final reports due 12-noon and Individual Lunch
1:00-4:00 pm Final presentations (1102 SAS) + Cake (4104 SAS)
5:00-7:00 pm Farewell dinner at Talley Student Union's 3rd Floor Bistro (2610 Cates Ave)

Thursday, 27 July

7:00-8:00am check-out. Return room key/access cards at check-out (to avoid \$125/\$25 fee)

Reports: Each group must submit a report about their research problem and results. This report is ***required***. Without it, the students cannot receive any reimbursement.

Schedule Information (continued)

NOTE: Coffee and soft drinks will be available during week days in 4102 SAS Hall.

Problem Presentation Information:

Tuesday, 18 July (9:00-11:35am), 1102 SAS

9:00-9:15 am **Welcome in SAS Room 1102** Ilse Ipsen, Associate Director of SAMSI, and NCSU

9:15-9:35 am **Uncertainty-enabled Design of Electromagnetic Reflectors with Integrated Shape Control**

Problem Presenter: Jordan Massad and Eric Shields (Sandia National Labs)

Faculty Mentor: Ralph Smith (NCSU)

Students: Jooyeon C., Samiul H., Daewa K., Laszlo K., Mykhailo K., Sijing L., Vikenty M., Li Z.

Assigned SAS Room 2102

9:35-9:55 am **The Nasal Microbiome**

Problem Presenters: Agustin Calatroni, Petra LeBeau, and Hoang Tran (Rho, Inc.)

Faculty Mentors: Eric Chi (NCSU)

Students: Srikanth A., Briahna A., Kaitlin D., David P-S., Yu Shi, Qiyiwen Z., Tianchi Z.

Assigned SAS Room 2106

9:55-10:15 am **Refreshments (4104 SAS)**

10:15-10:35 am **Remote assessment and short-term forecasting for the nearshore**

Problem Presenter: Matthew Farthing (US Army Corps of Engineers)

Faculty Mentor: Lea Jenkins (Clemson)

Students: Davoud A.T., Zheming G., Li L., Angelo M., Chathurangi P., David R., Caoxin S.

Assigned SAS Room 2225

10:35-10:55 am **Translational modeling in Irritable Bowel Syndrome (IBS)**

Problem Presenter: Angelean Hendrix (Quantitative Clinical Development, PAREXEL)

Faculty Mentor: Cammey Cole Manning (Meredith College)

Students: Kyle D., Patrick E., Jennifer K., Patrick L., Ben P., Peter S., Yunqi Z.

Assigned SAS Room 2229

10:55-11:15 am **Stochastic Parameterizations in Numerical Weather Prediction**

Problem Presenter Sarah King (US Naval Research Lab)

Faculty Mentor: Alen Alexanderian (NCSU)

Students: Mohamed A., Kayla B., Francesca B., Shuang L., Ghadeer M., Chang M., Scott S.

Assigned SAS Room 2235

11:15-11:35 am **Big Data and Data Fusion: Exploring EPA's Air Quality Products with Google Earth Engine**

Problem Presenters: Elizabeth Mannshardt and Barron Henderson (EPA)

Faculty Mentor: Mansoor Haider (NCSU)

Students: Aiton, Kevin A. Suiyao C., Chenlu Ke, Kelsey M., Nancy M., Nelson W., Yanjia Z.

Assigned SAS Room 1102

11:35 am **Group Photo**

12:00-1:30 pm **Lunch, 4104 SAS**

Schedule Information (continued)

1:30-2:30pm **Mini Career Fair, 4104 & 4201 SAS**

2:30-4:45pm **First Working sessions in separate assigned SAS Rooms.**

4:45-4:50 pm **Meet in SAS Lobby**

5:00-7:00pm **Dinner at Mitch's (2426 Hillsborough Street)**