AMS SHORT COURSE:
A BEGINNER'S COURSE TO USING PYTHON IN CLIMATE AND METEOROLOGY

3-4 JANUARY 2015   **PHOENIX CONVENTION CENTER**   **PHOENIX, AZ**

ORGANIZER & INSTRUCTOR

Johnny Lin, University of Washington Bothell, Bothell, WA and North Park University, Chicago, IL

PROGRAM (ROOM 211A)

SAT 1 FEBRUARY

8:30 A.M.	**ARRIVAL & INTRODUCTIONS**
8:45 A.M.	**PROGRAMMING ENVIRONMENT SETUP AND TROUBLESHOOTING**
9:00 A.M.	**INTRODUCTION TO PYTHON: WHAT IS IT AND WHY PYTHON?**
9:30 A.M.	**USING THE PYTHON INTERPRETER AND INTERACTIVE DEVELOPMENT ENVIRONMENT (IDE)**
10:00 A.M.	**COFFEE BREAK**
10:30 A.M.	**BASIC DATA AND CONTROL STRUCTURES**
12:00 P.M.	**LUNCH BREAK**
1:30 P.M.	**BASIC DATA AND CONTROL STRUCTURES (CONTINUED)**
2:30 P.M.	**ARRAY OPERATIONS**
3:00 P.M.	**COFFEE BREAK**
3:30 P.M.	**ARRAY OPERATIONS (CONTINUED)**
5:15 P.M.	**ASSIGN OPTIONAL HOMEWORK: PUTTING TOGETHER A BASIC DATA ANALYSIS ROUTINE**
5:30 P.M.	**SHORT COURSE ADJOURNS FOR THE DAY**

SUN 2 FEBRUARY

8:30 A.M.	**ARRIVAL**
8:45 A.M.	**DISCUSSION OF OPTIONAL HOMEWORK: PUTTING TOGETHER A BASIC DATA ANALYSIS ROUTINE**
10:00 A.M.	**COFFEE BREAK**
10:30 A.M.	**FILE INPUT AND OUTPUT**
12:00 P.M.	**LUNCH BREAK**
1:30 P.M.	**AN INTRODUCTION TO OBJECT-ORIENTED PROGRAMMING USING PYTHON**
3:00 P.M.	**COFFEE BREAK**
3:30 P.M.	**VISUALIZATION: BASIC LINE AND COUNTOUR PLOTS**
5:30 P.M.	**SHORT COURSE ADJOURNS**