

Schedule of Presentations

NTC Ted Carnevale
 MLH Michael Hines
 GMS Gordon Shepherd

Morning session

Time	Speaker	Title	Page
9:00 AM	MLH	Welcome	3
9:05	NTC	The basics	5
		Construction and use of models	13
		Using the CellBuilder to make a stylized model	14
		Creating and using an interface for running simulations	26
		Specifying inhomogeneous channel distributions	36
10:30	Coffee Break		
10:45	NTC	The Channel Builder	47
11:15	MLH	Using NMODL to add new biophysical mechanisms	57
11:45	NTC	The Linear Circuit Builder	63
NOON	Lunch		

Afternoon session

1:00 PM	MLH	Numerical methods: accuracy, stability, speed	71
1:15	NTC	Networks: spike-triggered synaptic transmission, events, and artificial spiking cells	77
2:00	MLH	Numerical methods: adaptive integration and events	87
2:15	MLH	Parallelizing network simulations	101
2:45	Coffee Break		

3:00	MLH	NEURON + Threads	117
3:30	GMS	Databases for computational neuroscience	127
4:00	MLH	Python + NEURON	133
4:45	MLH	Future directions	139
5:00		End of afternoon session	

Receipt and Survey**last two pages**

We value your opinions and suggestions for improving this course. Please take a moment to fill out and hand in the survey.