

**GLOBAL SECURITY SCIENCES DIVISION
INTRODUCTORY AGENT-BASED MODELING
AND SIMULATION WORKSHOP SCHEDULE
May 11-13, 2015**

Table 1: Schedule for Monday, May 11

Start	End	Section
9:00 AM	9:15 AM	Welcome to the Workshop <i>Michael North, Argonne National Laboratory and The University of Chicago</i> An introduction to the workshop.
9:15 AM	9:30 AM	Introduction to the Santa Fe Institute <i>Santa Fe Institute</i> A welcome to the workshop, an introduction to the Santa Fe Institute (SFI), and a discussion of the SFI Business Network.
9:30 AM	10:30 AM	Critical ABM Concepts, Part I <i>Michael North, Argonne National Laboratory and The University of Chicago</i> This facilitated discussion begins to introduce the central concepts of ABM.
10:30 AM	10:45 AM	Break
10:45 AM	Noon	Critical ABM Concepts, Part II <i>Charles Macal, Argonne National Laboratory and The University of Chicago</i> This facilitated discussion completes the introduction to ABM concepts.
Noon	1:00 PM	Lunch (Can Be Purchased from the Cafeteria)
1:00 PM	2:45 PM	ABM Design Questions Focus Session I <i>Michael North, Argonne National Laboratory and The University of Chicago</i> A facilitator-led focus session will allow the participants to work together to answer the initial ABM design questions for their individual models.
2:45 PM	3:00 PM	Repast Software Installation and Break
3:00 PM	4:00 PM	ABM Design Questions Focus Session II <i>Michael North, Argonne National Laboratory and The University of Chicago</i> A second facilitator-led focus session will allow the participants to work together to answer the initial ABM design questions for their individual models.
4:00 PM	5:00 PM	Introduction to Groovy for Repast Symphony I <i>Jonathan Ozik, Argonne National Laboratory and The University of Chicago</i> Central features of the Groovy language need for Repast Symphony agent-based modeling will be introduced using hands-on exercises.

Table 2: Schedule for Tuesday, May 12

Start	End	Section
9:00 AM	10:30 AM	Introduction to Groovy for Repast Symphony II <i>Jonathan Ozik, Argonne National Laboratory and The University of Chicago</i> Additional features of the Groovy language need for Repast Symphony agent-based modeling will be introduced using hands-on exercises.
10:30 AM	10:45 AM	Break
10:45 AM	Noon	Introduction to the Example Model and ReLogo Constructs <i>Charles Macal and Jonathan Ozik, Argonne National Laboratory and The University of Chicago</i> The Repast Symphony ReLogo Patch, Link, Observer, and Turtle (PLOT) agents; statecharts; and systems dynamics will be discussed in the context of a supply chain example the participants will build during the workshop.
Noon	1:00 PM	Lunch (Can Be Purchased from the Cafeteria)
1:00 PM	3:00 PM	Getting Started on the Supply Chain Implementation <i>Jonathan Ozik, Argonne National Laboratory and The University of Chicago</i> The participants will interactively build the supply chain using Repast Symphony ReLogo. During this session they will create a new project and begin creating the main agents.
3:00 PM	3:15 PM	Break
3:15 PM	4:00 PM	ReLogo PLOT Agents Strategies Focus Session <i>Michael North, Argonne National Laboratory and The University of Chicago</i> A facilitator-led focus session will allow the participants to work together to develop strategies for using ReLogo PLOT Agents to implement their individual models.
4:00 PM	5:00 PM	Supply Chain ReLogo Initialization <i>Jonathan Ozik, Argonne National Laboratory and The University of Chicago</i> The participants will interactively build the supply chain's initialization system using ReLogo.

Table 3: Schedule for Wednesday, May 13

Start	End	Section
9:00 AM	10:45 AM	Supply Chain Agent Statechart Behaviors <i>Jonathan Ozik, Argonne National Laboratory and The University of Chicago</i> The participants will add behaviors to the supply chain agents using statecharts.
10:45 AM	11:00 AM	Break
11:00 AM	Noon	Supply Chain System Dynamics I <i>Michael North, Argonne National Laboratory and The University of Chicago</i> The participants will begin adding a system dynamics model to the supply chain model.
Noon	1:00 PM	Lunch (Can Be Purchased from the Cafeteria)
1:00 PM	2:00 PM	Supply Chain System Dynamics II <i>Michael North, Argonne National Laboratory and The University of Chicago</i> The participants will finish adding a system dynamics model to the supply chain model.
2:00 PM	2:15 PM	Break
2:15 PM	3:00 PM	Behaviors and Revisions Focus Session <i>Michael North, Argonne National Laboratory and The University of Chicago</i> A facilitator-led focus session will allow the participants to work together to develop strategies for using statecharts and systems dynamics in their individual models as well as consider revisions to their previous model designs.

The Argonne contact for the workshop is:

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