The Flight and Ground Vehicle Simulation Course is a unique five-day program co-sponsored by the State University of New York at Binghamton and the American Institute of Aeronautics and Astronautics (AIAA) Modeling and Simulation Technical Committee. Their combined efforts have produced a program that addresses all major components and subsystems comprising today's complex flight and ground vehicle simulators.

WHO SHOULD ATTEND
Engineers, system hardware and software design specialists, program/project managers, and simulation support personnel, including product sales/marketing representatives and other professionals associated with the specification, design, testing, implementation or acquisition of modern flight and ground vehicle simulators.

OBJECTIVES
The course provides a comprehensive overview for professionals seeking a working understanding of the key components of flight and ground vehicle simulation. It serves as a major forum for practicing simulation engineers seeking state-of-the-art information about system design, applications and research trends.

Main Course Instructors and Topics

Olen Atkins, Wegmann USA
- Computer Image Generation

Professor Frank Cardullo, Binghamton University
- Simulation Fundamentals
- Motion and Force Cueing
- Simulator Systems Integration

Dr. James L. Davis, Sagetech Corp.
- Visual Perception
- Visual Display Systems

R. Thomas Galloway, Consultant, and David Gingras, Bihrle Applied Research Inc.
- Mathematical Modeling of Vehicle Dynamics
- Simulation Validation and Evaluation of Flight Simulators

Dr. Valerie Gawron, MITRE Corp.
- Simulation Applications in Training

Dr. Jeffery Schroeder, Federal Aviation Administration
- Flight Simulator Qualification

James R. Takats, Textron, Inc.
- Flight Control System Simulation

Dr. Andreas Tolk, MITRE Corp.
- Engineering Principles Enabling Live-Virtual-Constructive (LVC) Simulation Solutions

Specialized Short Courses

Visual System Specification and Acceptance Tests Course
January 29–30, 2018
Roy W. Latham, CGS Development Corp.
Overview of specification process and database, real time software, image generator and display specifications. Task analysis, image generator HW features, capacity, features, common parameters, projection and HMD display, color specification and measurement, acceptance test principles/special problems, project management and future trends are also covered.

Next Generation Display System Requirements, Metrics, and Measurements
January 29–30, 2018
Dr. Charles Lloyd, Visual Performance LLC
This two-day course focuses on those display system requirements that are the strongest drivers of task performance, training effectiveness, and system cost and complexity, while focusing on improved metrics that are enabled by modern measurement technologies. Topics include: training display system design goals, quantifying visual performance, limitations of the observer, and high level system requirements, methods for measuring display systems, and new metrics under development.

REGISTRATION
Advance registration is mandatory as enrollments are limited to ensure instructional quality. Best method to register: flightsim.binghamton.edu
Questions: Call 607-777-6236 or e-mail wtsnindy@binghamton.edu.
Registration fees also include parking, morning and afternoon refreshments, lunches and a reception.

FEES

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<td>University or Government</td>
<td>$1,595/$1,695</td>
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(early bird fees through Oct. 13/regular rate starts Oct. 14)
In 1929, Edwin A. Link, “the Father of Flight Simulation,” received his first patent for his pilot trainer in Binghamton, N.Y. What Link started as a simple and ingenious way of training pilots has evolved into an integral part of the engineering design process. Simulation saves lives, time, money and the environment, and it provides a means to prepare for tasks that cannot be trained for on a real system.

2018 marks the 34th year that Binghamton University has proudly hosted these Flight and Ground Vehicle Simulation courses. Technical training provides a significant return on investment and educates leaders in the field. Take advantage of this opportunity to have world-renowned simulation experts guide you and your staff during your visit to Binghamton, the “Cradle of Flight Simulation.”

REGISTER
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