Registration Deadline Extended for Distance Learning Master of HSI Degree Program

Deadline extended until September 9th to give prospective students additional time to complete application process.

With just over three weeks remaining before the start of the inaugural cohort of the Distance Learning Master of Human Systems Integration (DL MHSI) degree program, the NPS Admissions Office is busy processing applications. We are excited about the number and the quality of the applicants. It’s especially rewarding to see that several Certificate Program graduates have chosen to continue with their HSI education by applying for the DL MHSI program. In order to accommodate the application and admission processes, we are extending the application deadline until 9 September.

Anyone interested in joining the first DL MHSI cohort should begin the application process online immediately at: http://www.nps.edu/DL/Degree_Progs/MHSI.asp.

Please contact me (lgshattu@nps.edu; 831-656-2473) or Diana Kim (dkkim@nps.edu; 831-656-3134) for additional information.

Larry Shattuck
Program Director
Human Systems Integration

Important Dates

- **September 9th** – NPS DL Master of HSI Program application deadline
- **September 19th** – Human Systems Integration Practitioners’ Workshop, HFES Annual Meeting, Las Vegas, NV
- **September 19th-22nd** – MORS Workshop on Risk, Trade Space, and Analytics in Acquisition, Tysons Corner, Vienna, VA
- **September 19th-23rd** – Human Factors and Ergonomics Society Annual Meeting, Las Vegas, NV
- **September 26th** – NPS DL Master of HSI Program begins
- **October 25th-27th** – Human Systems Integration Symposium, Vienna, VA

NPS Faculty Set to Lead HSI Workshop at HFES

The annual gathering of the Human Factors and Ergonomics Society will take place 19-23 September in Las Vegas, NV. The week’s activities will start with a series of workshops for those attendees who are looking to increase their knowledge in a particular area. One of the workshops offered this year is entitled, “Human Systems Integration Practitioners Workshop.” Larry and Nita Shattuck will be facilitating this six-hour workshop which is designed to introduce beginners and novices to the emerging field of HSI. The Shattucks will encourage attendees to venture beyond the traditional boundaries of Human Factors and Ergonomics, to consider other HSI disciplines and the manner in which these disciplines interact, and to be mindful of the context in which the design, development, engineering, manufacture, production, deployment, and sustainment take place.

For more information about the annual meeting and the HSI workshop, go to: http://www.hfes.org/web/HFESMeetings/2011annual-meeting.html.

West Point Cadet Interns with NPS HSI Program

Each summer, Cadets at the US Military Academy take a break from the classroom and participate in a variety of training activities designed to sharpen their military skills and leadership abilities. In addition to military training, selected Cadets participate in the Advanced Individual Academic Development (AIAD) Program. Over the past five years, the HSI Program has hosted several AIAD Cadets from both the US Military Academy and the US Air Force Academy who have worked alongside HSI faculty members and Operations Research analysts at the TRADOC Analysis Center Field Office at NPS.

This summer, NPS hosted Cadet Justinas Zenkevicius for a four-week internship. Cadet “Z” was an outstanding addition to the HSI team. He made significant improvements to the NPS HSI Trade Space Tool and led the development of a website for NPS HSI alumni.

Upon graduation in May 2012, “Z” will return to his native Lithuania and be commissioned in his nation’s Army. Thanks, and best wishes, “Z!”
Third DL HSI Certificate Program Cohort Underway

Twenty-two distance learning students began eleven-month, four-course graduate education sequence in July.

It hardly seems possible that we’ve begun our third cohort of the popular Distance Learning Human Systems Integration Certificate Program. In fact, the 22 students enrolled in the program are already approaching the end of their first course, OA3411: Introduction to Human Systems Integration.

Their professor, Larry Shattuck, reports that this cohort is continuing the excellence exhibited by students in previous cohorts. Similar to the previous two cohorts, the current cohort is made up of active duty, DoD and DHS civilians, and a few defense contractors.

The next course on the cohort’s schedule is OA3412: Human Systems Integration in the Acquisition Process. CDR (retired) Andy Bellenkes, Ph.D. will lead them through the Defense acquisition process and teach them how HSI practitioners can make a real difference during each phase.

Shattuck Leads Team of HSI Researchers at Camp Pendleton

HSI Professor investigates the effects of motion on human performance.

It’s a quiet, sunny day on a deserted beach at Camp Pendleton. The calm is suddenly shattered by a noisy amphibious vehicle that comes ashore. The rear door opens and 15 Marines pile out ready to fight. The Marines are not part of a wargame but are actually voluntary participants in an experiment - the Habitability Assessment Test.

For the better part of August, Dr. Nita Shattuck led a team of NPS faculty and student researchers in collecting data on the Marines. Dr. Shattuck and her team partnered with Camp Pendleton’s Amphibious Vehicle Test Branch (AVTB) to design the study. Over a three-week period, 61 Marines rode in two different amphibious vehicles at sea for one, two, or three hours. When they came ashore, they completed a motion sickness survey and then were tested in three areas: marksmanship, physical agility, and cognitive ability. Their performance on these events will be compared to baseline data collected on the same tests prior to boarding the vehicles. The Marines also wore wrist activity monitors to assess their sleep.

The two types of vehicles were instrumented to determine their motion profiles in the water. The purpose of the study is to determine the effects of different types of motion on critical warfighting skills and the extent to which these skills may be degraded when Marines are transported from ship to shore.

The NPS Research Team also included Larry Shattuck, Marie Varberg, LT Cynthia Gelphi, LT Byron Lee, and LT JR Munoz. Gelphi and Lee will use the data for their theses. The AVTB Team was expertly led by Mr. Chad Lauffer and Mr. Lalo Chaidez.

HSI Alumni Website Development Underway

Virtually all of the more than 100 students who have completed the HSI academic programs have asked the same question: “How do we continue to have access to all of the great information we were provided in our courses?” We finally have an answer to that question. Well, almost. Work has begun on an website that will provide alumni with the latest versions of course content and the current versions of HSI policies and other documents. There will also be various tools for alumni to interact with each other and share information. Stay tuned for more information about the alumni website!

Date set for HSI Curriculum Review

In accordance with NPS policy, curricula must be reviewed by the program sponsors every two years. The biennial review of the HSI curriculum has been scheduled for 25 - 26 JAN 2012 at NPS. Mr. Scott Lutterloh, N15, is expected to lead the review. In addition stakeholders from the military services, DHS, NASA, and industry will be invited to attend. A working-level stakeholders’ meeting will be held in conjunction with the HSI Symposium in late October. Invitations to that meeting will be sent out shortly.

MITRE Visits NPS Campus to Pursue Collaboration

On 30 August, three representatives from MITRE (Drs. Valerie Gawron, Eric Bloedorn, and Eugene Mwendwa) visited NPS to determine the prospects for establishing a Cooperative Research and Development Agreement (CRADA) with NPS.

Professor Michael McCauley (OR Dept. and MOVES Institute) worked with Dr. Gawron to establish an agenda of candidate technologies, methods, and research issues at NPS that align with MITRE’s near-term R&D programs. Those current research endeavors can be characterized as national, multi-agency, distributed, secure, networked simulations of large-scale disruptions such as terrorist attacks or natural or medical disasters. MITRE met with NPS researchers from the MOVES Institute, Computer Science Dept., Operations Research Dept., the SEED Center, and the SE Dept.

Areas where NPS faculty, staff, and students may be able to contribute include scenario development, performance measurement, data analysis, and data visualization from the perspective of each participating agency. Based on this successful interchange, MITRE and NPS plan to complete the Statement of Work for a CRADA in the very near future and hope to begin cooperative research efforts next Quarter.