



## Human Systems Integration Newsletter March 2010

### Applications for HSI Certificate Program July Cohort Pouring In!

More than 20 people have already submitted their applications for the 2nd HSI cohort scheduled to begin in July, well ahead of where we were at this time last year. A preliminary review indicates there is a good mix of military, government civilian, and contractor personnel.

The target size of a cohort is not less than 20 but not more than 30 students. If applications continue at the present rate, we will exceed the maximum allowed and will begin building another cohort that will also start in July. **All applications (including transcripts and command endorsement letters must be completed by 4 June 2010.**

Anyone interested in applying should go to the following website:

[http://www.nps.edu/dl/Cert\\_Progs/HSI.asp](http://www.nps.edu/dl/Cert_Progs/HSI.asp).

The site contains a link to the online admissions packet. Prospective students apply to NPS and annotate on their application that they are enrolling in the HSI Certificate Program (Curriculum 262).

#### Save the Date: Undersea HSI Symposium

The Undersea Human Systems Integration (UHSI) 2010 Symposium will be held at the Marriott Hotel in Providence, RI, 27-29 July 2010. The theme of the UHSI 2010 symposium is, **"Getting the Best Through Warfighter System Integration."**

The goal of UHSI 2010 is to share knowledge, experience and lessons learned and to highlight the cohesive relationship between the systems engineering and HSI processes in the development of technologies to support the Warfighter.

UHSI 2010 is being sponsored by ASNE and is an unclassified open technical symposium for interdisciplinary exchange among government, academic, and industry personnel. The symposium is a must-attend



event for anyone engaged in the research and development, design and engineering, test and evaluation, construction and life cycle support of naval undersea systems.

The theme and content of this symposium will provide an important forum for HSI professionals to network, exchange ideas, and to learn about the latest topics regarding critical HSI issues and solutions.

Anyone interested in presenting a paper or organizing a panel should submit an abstract not later than 15 April. See the UHSI website for more details (<http://www.navalengineers.org/events/individualeventwebsites/UHSI/Pages/ASNELandingPage.aspx>)

#### NASA Ames Researchers Meet With HSI Faculty

The month of March began with a visit by researchers from NASA Ames. **Chuck Jorgensen**, Chief Scientist, Neuro Engineering, and

**Mike Feary**, Aero Program Manager, were interested in ongoing HSI



and human factors research being conducted by NPS faculty and students. In particular, they were interested in HSI tools. Since **Nita Miller** was in the middle of teaching OA3413 (HSI Tools, Techniques, and Procedures) she was able to provide them with a wealth of information. She shared her knowledge of HSI tool taxonomies and discussed software products from companies such as Alion and Sonalysts.

In addition, **Mike McCauley** described a recent student thesis (on which he was the advisor) that used IMPRINT to examine the workload of bridge personnel during a DDG-1000 underway replenishment operation. We look forward to more interaction with our NASA Ames colleagues in the future!

## Where Are They Now?

Do you wonder what happens to our HSI graduates when they leave NPS? We do, too! There are now 36 graduates of the program. Of those, 22 are Naval Officers still on active duty; the remainder are Air Force Officers, Army Officers, and DoD Civilians. We contacted a few recent Naval Officer graduates to see what they're doing now. Here's what they had to say.

**LCDR Jayson Colebank** (2008) returned recently from an assignment in Iraq where he was supporting the Marines. He is now assigned to NAWC TSD, Orlando. His job title is TRADEV PC/M&S. Jayson told us, "I am an HSI advisor on projects that need attention. Currently I am working with the IPT team on the T-45 simulator with plans to move on to other teams across all warfare spectrums."



**LT Jeanine Lang** (2009) began working at NAWC TSD at about the same time as Jayson. She reported, "Right now I'm working on the source selection for an E2-C upgrade and next I'll be starting a new program with the Coast Guard with the HC-144. That should be interesting because I'll be involved right from the beginning. The XO envisions me being involved with programs in every department here; surface ships, aviation, sub-surface, cross-warfare."

**LTJG Pam McLaughlin** (2009) is now assigned to the Navy Personnel Command, Millington, TN. "I am the Secretariat for PERS-8. I manage all civilian and military manning and manpower as well as civilian Human Resources functions."



**LCDR Doug Jones** (2009) and **LT Kacey Kemmerer** (2008) are members of the Navy's HSI Office (N151) and work HSI policy issues on a daily basis. **LT Andie Cassidy** (2009) is assigned to NAVSEA and works on HSI initiatives related to the Littoral Combat Ship.

These are just some of our graduates who are decisively engaged in Navy HSI on a daily basis yet **none of them is in a billet that is coded for HSI**. To keep DoD "stocked" with HSI-educated military officers, it is imperative that each of the services identify and code positions appropriately. *If you have military personnel in your organization performing HSI-related activities, please take the time to get their positions coded properly. Or, if you need HSI-educated military personnel in your organization, please take the appropriate steps to create (or re-code) positions.*

## One Day in Kabul

In mid-March, Professor **Mike McCauley** and MOVES Institute doctoral student **LTC Jon Alt**, visited Camp Pendleton to observe counter-IED training in the Infantry Immersive Trainer (IIT) and the Mobile Counter IED Trainer (MCIT). The purpose of the trip was to provide background for the NPS project to improve the visual detection of IEDs.

In preparation for the training scenarios in the IIT, Marine Corps troops are introduced to IED materials, methods, and tactics by traversing through the MCIT. The IIT had just re-opened after converting from an Iraq to an Afghanistan simulation.

According to local actors, hired from the Afghan community in San Diego, the IIT had many of the sights, sounds and smells of home in Kabul. Funded by ONR, the IIT

is a type of Virtual Environment that provides a safe environment for learning to cope with complex, high stress environments before troops are exposed to the real threat.



## DSOC HSI Task Force Work Continues

The Defense Safety Oversight Council's HSI Task Force met on 23-24 March in San Antonio, TX. The Operational HSI Working Group was represented by **Nita Miller** (working group chair), **Lt Col Anthony Tvaryanas** (NPS), **Stuart Booth** (OSD/ATL), and **Paul Chatelier** (NPS), with **CAPT Nick Davenport** and his colleague at the Naval Safety Center, **Mike Francis**, joining via conference call.

The task force meeting started with an update on the "Leading Indicators of Safety" project by **LCDR Paul O'Connor** and **Sam Buttrey**. **Colonel Bugs Ortega**, the Air Force ISR command surgeon, then provided a strategic view of the Air Force work force of the future. Mr. Stuart Booth followed up with a great overview on the need for a Human View for the DoD Architectural Framework (HV for DODAF).

The Task Force was reorganized into two working groups (Operational HSI and Human Performance). The Operational HSI Working Group will continue to focus on infusing HSI into the acquisition process and fatigue mitigation/prevention. More immediately, the working group is pressing ahead with work on the HV/DODAF initiative.