

Annual Report for IHO - Korea Fund, Academic Year 2014 - 15

Three students sponsored by the IHO-Korea Fund completed the University of Southern Mississippi Hydrographic Science Master Degree/Category A Program. The tables below display the general calendar and specific courses of the program. These students were:

Maylord Manjares De Chavez, LTJG, Philippines National Mapping and Resource Information Authority- B.S. Geodetic Engineering, Univ. of the Philippines 2007. Hometown: San Juan, Batangas, Philippines.

Uchechukwu Kelechi Erege, Sub-Lt., Nigerian Navy - M.Sc. Surveying & Geoinformatics, University of Lagos 2011, B.Sc. Surveying & Geoinformatics, University of Lagos 2007. Hometown: Imo State, Federal Republic of Nigeria.

Shaikh Imtiaz Bin Firoz, Lt.Cdr., Bangladesh Navy – M.Sc. Physics, National University of Bangladesh 2012, B.Sc. Naval Science, National University of Bangladesh 2006. Hometown: Jessore, Bangladesh.

The general calendar for Academic Year 2014 – 2015 was:

Hydrographic Science Program Calendar 2014 - 15	
Event	Date
Students arrive	3-Aug-14
Reviews and Orientations	7 -19 Aug
Fall Semester classes begin	20-Aug
Fall Semester exams	8 - 11 Dec 14
Christmas Break	12 Dec - 11 Jan
Spring Semester classes begin	12-Jan-15
Spring Semester exams	4 - 7 May
Summer session classes begin	11-May
Survey Project field begins	25-May
Survey Project field ends	3-Jul
Comprehensive exam	28-Jul
Graduation Recognition Ceremony	30-Jul
Turn-in all USM property	31-Jul-15

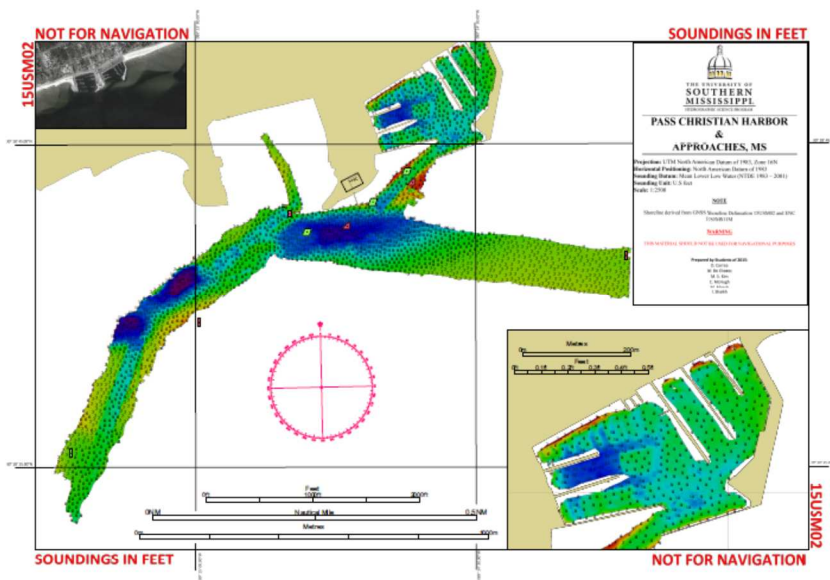
Hydrographic Science Master Degree Program for Academic Year 2014 - 15

Official Courses	Credit Hours	Subject	Instructor	Instructor Rank
Fall (1st) Semester (15 credit hours, 16 weeks)				
MAR 668	3	Applied Ocean Acoustics	Dr. Wells	Contract Professor
HYD 600	3	Classical Geodesy	Dr. Howden	Associate Professor
HYD 607	3	Oceanography for Hydrographers	Dr. Church	Assistant Professor
HYD 608	2	Practical Hydrography	Mr. van Norden	Coordinator & Instructor
HYD 609	1	Nautical Science	RDML (ret) Barbor	Adjunct Instructor
HYD 620	3	Math Concepts for Hydrographers	Dr. Church	Assistant Professor

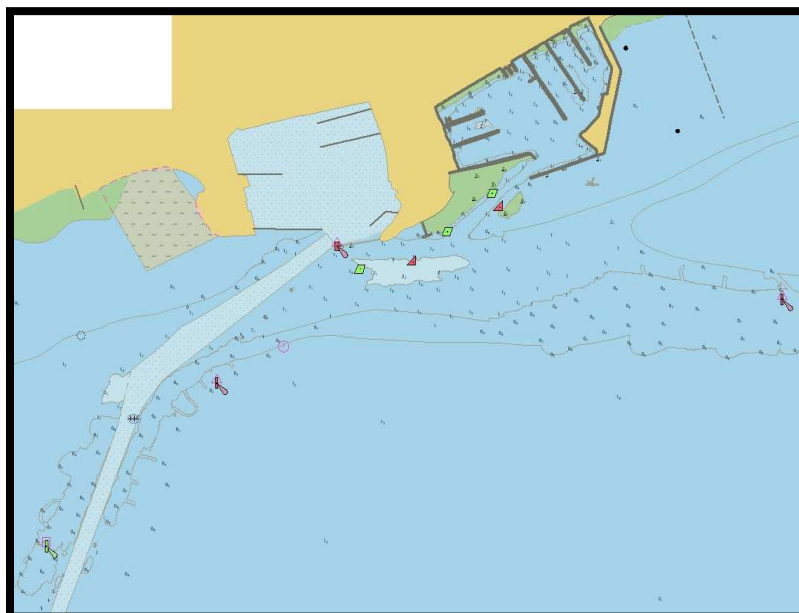
Spring (2nd) Semester (15 credit hours, 16 weeks)				
HYD 601	3	Hydrographic Data Management	Dr. Church	Assistant Professor
HYD 604	3	Kinematic Positioning	Dr. Wells	Contract Professor
HYD 605	3	Applied Bathymetry	Dr. Wells	Contract Professor
HYD 611	3	Remote Sensing for Hydrographers	Mr. van Norden	Coordinator & Instructor
HYD 612	3	Water Levels	Dr. Howden	Associate Professor

Summer (3rd) Term (6 credit hours, 11 weeks)				
HYD 606	2	Nautical Cartography and GIS	IIC	Contract Instructors
HYD 603	1	Law and Policy for Hydrographic Science	Mr. van Norden	Coordinator & Instructor
HYD 610	3	Hydrographic Science Field Project	Mr. van Norden	Coordinator & Instructor

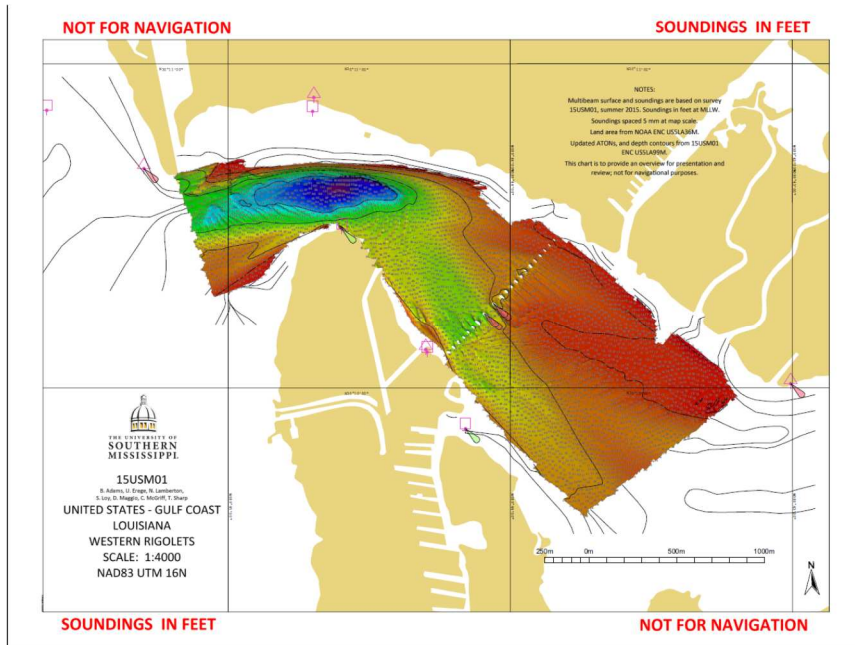
The International Board specifies in IHO S-5 that all students must complete a field program. These students completed this requirement by participating as team members on two student teams. Maylord De Chavez and Shaikh Bin Firoz were on the team that completed a survey of the new uncharted marina in Pass Christian, Mississippi. Uchekukwu Erege was a team member for the survey of the western Rigolets Passage, Louisiana. Both surveys were Ellipsoid Referenced Surveys with student established tide gages to determine ellipsoid-chart datum separation. The Pass Christian survey team used a Kongsberg 2040C multibeam mounted at a slanted angle for greater bottom coverage and an EdgeTech 4600 for target identification. The Rigolets survey team used a Reson 7125 multibeam with an EdgeTech 4125 for target identification. Both teams successfully processed their data, completed all reports required by NOAA and USM, and produced the chart products below.



Soundings Sheet
New Pass Christian, MS
Marina

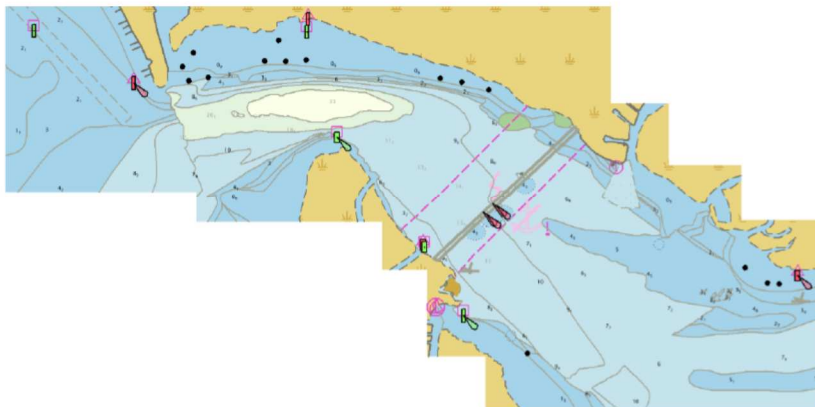


New ENC Cell
New Marina
Pass Christian, MS



Soundings Sheet
Western Rigolets Passage,
Louisiana

15USM01: Western Rigolets ENC



New ENC Cell
Western Rigolets Passage,
Louisiana

ARTICLE - SOUTHERN MISS HYDROGRAPHIC SCIENCE RECOGNITION CEREMONY FEATURED CHAIR OF THE CAPACITY BUILDING SUBCOMMITTEE OF THE INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Dr. Monty Graham, Chair, Department of Marine Science, provided the opening remarks for the recognition ceremony for the 13 graduates of the Joint International Hydrographic Applied Science Program (JIHASP) of The University of Southern Mississippi. The recognition ceremony was held on July 30, 2015, at the Stennis Space Center campus. Established in 1999, the Southern Miss program has conferred 174 Master of Science degrees in hydrographic science on students from 24 different countries.

Mr. Thomas Dehling, Chair, Capacity Building Sub-Committee, International Hydrographic Organization (IHO) and Director, Hydrographic Survey Division, German Federal Maritime and Hydrographic Agency was the featured speaker. The IHO, located in Monaco, is an international, intergovernmental organization established in 1921 to enhance the safety of navigation and protection of the marine environment. The IHO, along with the International Federation of Surveyors (FIG) and the International Cartographic Association (ICA), provides certification of academic programs focused on hydrography and nautical cartography. The Southern Miss program is recognized at the highest level, Category A, by these organizations – one of only two programs in North America to receive this recognition.

Joining Mr. Dehling and Dr. Graham at the podium were Rear Admiral (ret) Ken Barbor, Director, USM Hydrographic Science Research Center and Captain Rich Delgado, Chief of Staff, Naval Meteorology and Oceanography Command. Admiral Barbor read a letter from Mr. Sohn, Keonsoo, Director General, Korea Hydrographic and Oceanographic Administration. Mr. Sohn expressed his continued financial support by the government of the Republic of Korea for the capacity building initiative administered by the IHO that provides scholarships to prospective hydrographers from developing countries to attend the Southern Miss program. Three students supported by the IHO – Korea Fund graduated this past summer, and four more students are being supported this academic year.

Captain Delgado is a 2002 graduate of this program. He remarked on the strong partnership forged between the Navy and Southern Miss with JIHASP. JIHASP is core to the advanced educational requirements of the U.S. Navy to meet their needs for highly trained hydrographers. Southern Miss graduates are employed by the Navy, NOAA, the Army, the offshore construction and hydrocarbon industry, and governments around the world. The world-wide shortage of qualified hydrographers makes Southern Miss graduates highly sought after.



**Left to right:
CAPT Rich Delgado,
LT Brandon Adams
recipient of the
Hydrographer of the
Navy Award,
Mr. Thomas Dehling,
Dr. Monty Graham**

MASTER OF SCIENCE, HYDROGRAPHIC SCIENCE GRADUATES, CLASS OF 2015



Sitting left to right: Uchekchukwu Kelechi Erege, Sub Lt., Nigerian Navy; Shaikh Imtiaz Bin Firoz, Lt.Cdr., Bangladesh Navy; Michaël Paulus Mosch, Lt., Royal Netherlands Navy; Brandon Charles Adams, LT, USN, Fleet Survey Team; Standing left to Right: Maylord Manjares De Chavez, Lt.Jg., Philippines National Mapping and Resource Information Authority; David Stephen Maggio, Project Surveyor, TerraSond Limited; Dominic Correa, Hydrographer, Gambia Ports Authority; Natalie Ruth Lamberton, Physical Scientist GS-12, NAVOCEANO Hydrographic Department; Steven Tenhet Loy, LT, NOAA; Christopher Robin McHugh, Project Surveyor, Terrasond Limited; Callan Elizabeth McGriff, Project Surveyor, David Evans and Associates; Min Sung Kim, Fiji Islands, Project Surveyor, TerraSond Limited. Not shown: Tyler Hayes Sharp, LT, USN, Fleet Survey Team.



Maylord Manjares De Chavez,
Lt.Jg., Philippines National
Mapping and Resource
Information Authority
receiving CAT A Certificate.



Uchechukwu Kelechi Erege,
Sub-Lt., Nigerian Navy
receiving CAT A Certificate.



Shaikh Imtiaz Bin Firoz,
Lt.Cdr., Bangladesh Navy
receiving CAT A Certificate.

AY 2014 – 15 IHO-Korea Fund Disbursements

Student	Term	Tuition	Course Fees	International Prog. And Grad. School Fees	Bookstore	Health Insurance	Medical Clinic	Reimbursements for Living Expenses	Taxes See Note	Totals
Maylord De Chavez	Fall 2014	4266	750	75	0	643	51	9256	1379	16420
	Spring 2015	4266	1500	75	0	887		6019	1365	14112
	Summer 2015	2328	800		0	0		2924	476	6528
Totals		10860	3050	150	0	1530	51	18199	3220	37060
Uchechukwu Erege	Fall 2014	4266	750	75	0	643	51	7777	1379	14941
	Spring 2015	4266	1500	75	0	887		7498	1365	15591
	Summer 2015	2328	800		0	0		2924	476	6528
Totals		10860	3050	150	0	1530	51	18199	3220	37060
Shaikh Imtiaz Bin Firoz	Fall 2014	4266	750	75	0	643	51	7777	1379	14941
	Spring 2015	4266	1500	75	0	887		7498	1365	15591
	Summer 2015	2328	800		0	0		2924	476	6528
Totals		10860	3050	150	0	1530	51	18199	3220	37060
Total All Students		32580	9150	450	0	4590	153	54597	9660	111180
Maylord De Chavez	Travel and per diem to U.S. Hydro Conference 15									
Uchechukwu Erege	Travel and per diem to U.S. Hydro Conference 15									
Shaikh Imtiaz Bin Firoz	Travel and per diem to U.S. Hydro Conference 15									
Maxim van Norden	Travel and per diem to U.S. Hydro Conference 15									
Maxim van Norden	Travel to PMB15 (remaining travel cost funded by USM)									
Dept of Marine Science	Vehicle charges (estimate)									
Total	Total Travel									
Remaining Funds	Travel Funds to be carried over into Academic Year 2015 - 16									
IHO AY2014-15 Funds										
Totals	1289.27									
	1325.78									
	1439.72									
	1543.40									
	1000.00									
	600.00									
	7198.17									
	1801.83									
	120180.00									
Notes	<ol style="list-style-type: none"> 1. Estimated Taxes. Students must file a tax form with IRS for each year to receive all or partial reimbursement of taxes paid. 2. Students elected to purchase books and supplies through on-line purchases and not the USM bookstore. 3. 25% of Travel to PMB15 by M.van Norden is covered by this budget. 									