



NEW ISWI COORDINATORS

presented by Christine Amory-Mazaudier

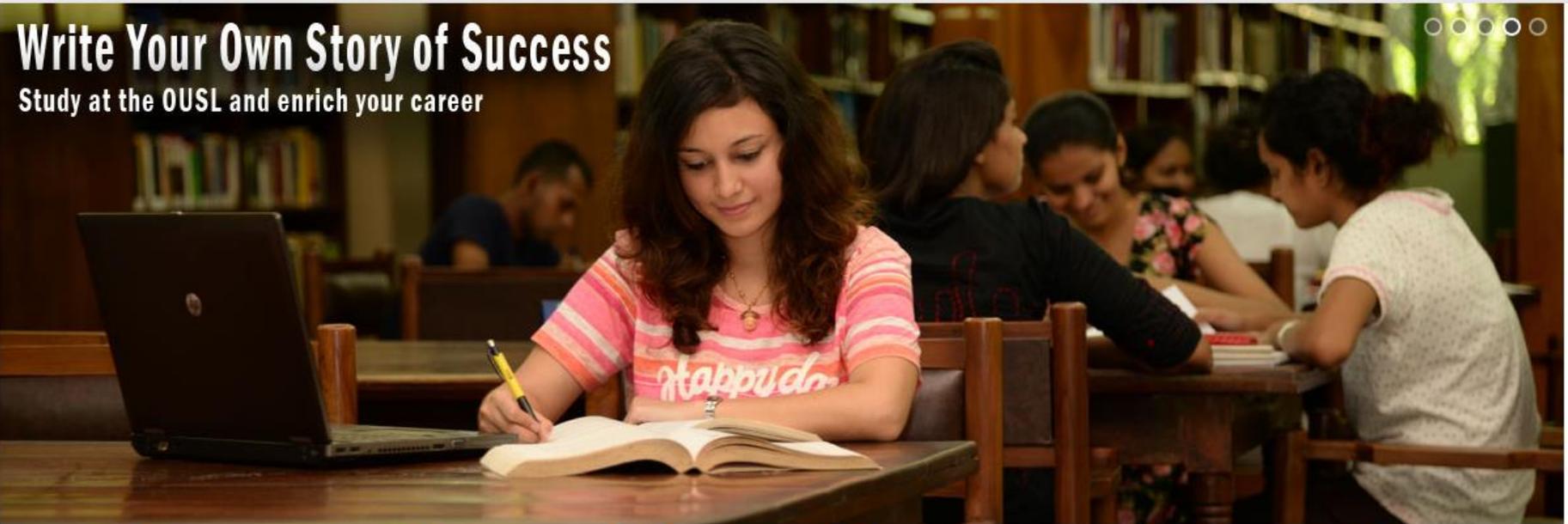
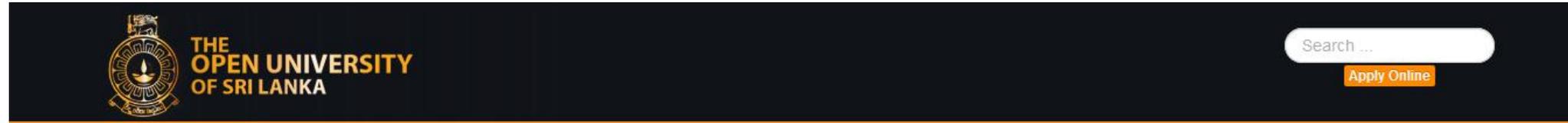
- ASIA
 - Sri Lanka
 - Nepal => 2 coordinators
 - Pakistan
 - Vietnam
- AFRICA
 - Benin
 - South-Africa



Dr D.D.G.L. DAHANAYAKA country: SRI LANKA

Affiliation : Faculty of Natural Sciences, The Open University of Sri Lanka

Position : Senior Lecturer



points characterizing your activity
Satellite Remote Sensing & GIS

main fields of research
Training etc...

Satellite Remote Sensing
Applications on Natural
Resources Management

Keynote Speech & Guest
lectures on Satellite RS field
conducted over 15 countries



Dr. Narayan Prasad Chapagain

Professor of Physics

Affiliation: Tribhuvan University, Amrit Campus, Thamel, Kathmandu, Nepal

President of Nepal Physical Society

Country: Nepal

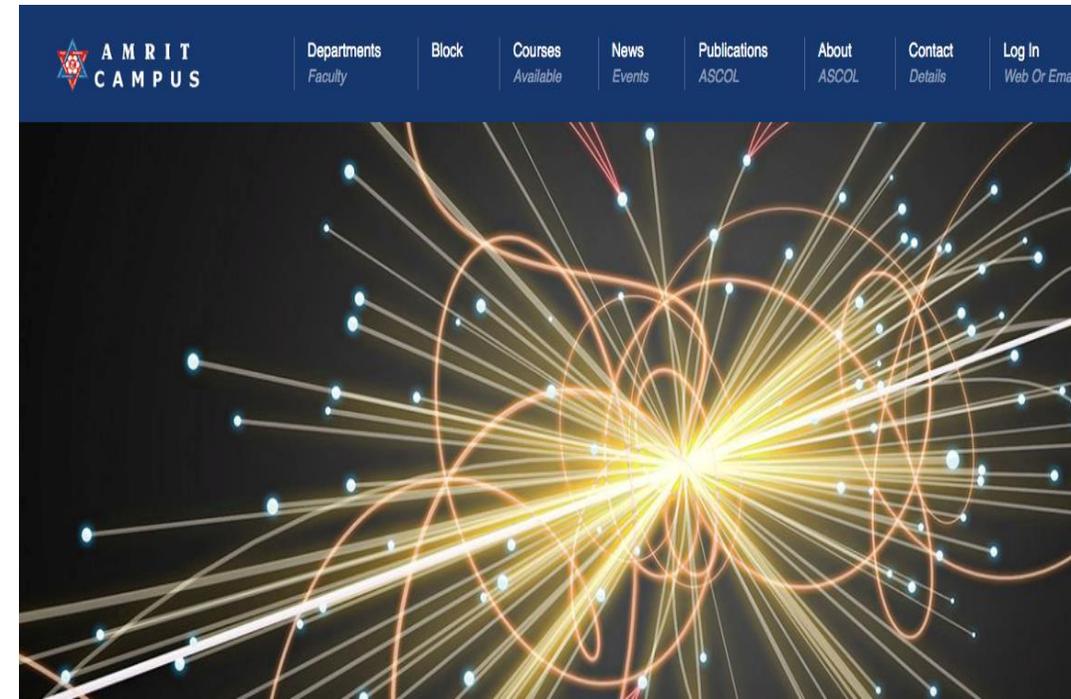
Advisor of Space Technology Committee, Ministry of Education, Science and Technology, Government of Nepal

Tel: 977-9851046775

email: npchapagain@gmail.com, npchapagain@kbc.edu.np

Research Fields of Interests:

- Space and Atmospheric Physics
- Space Weather, Heliophysics, Ionospheric Physics, Magnetosphere-ionosphere coupling, Geomagnetic storms.
- Optical and radio remote sensing techniques from both ground- and satellite-based platforms.



Educational Background:

- **Ph.D.** May 2011 Utah State University, Logan, UT, USA
Area of study: Space and Ionospheric Physics.
- **M.Tech** August 2003 Andhra University, Visakhapatnam, India
Area of study: Atmospheric and Space Sciences
- **M.S.** March 1993 Tribhuvan University, Kathmandu, Nepal

Professional Experiences:

- **Professor in Physics** (March 2018–present): Tribhuvan University, Kathmandu, Nepal.
- **President:** Nepal Physical Society (November 2019- Present).
- **Postdoctoral Research Associate** (May 2011– June 2013): Jack Eddy Postdoctoral Fellowship, sponsored by NASA Living With a Star Heliophysics Program, University of Illinois at Urbana-Champaign, Urbana, Illinois, USA.
- **Head of Department of Physics** (1998 – 2000): Patan M. Campus, Tribhuvan University, Lalitpur, Nepal.
- **Coordinator of MSc Physics Program** (2017- 2018), Department of Physics, Patan Multiple Campus, Tribhuvan University, Kathmandu, Nepal
- **Member of Advisory Committee of Space Technology** (2015–present), Ministry of Education, Science and Technology, Government of Nepal.
- **PhD Supervisor:** I have been serving as a PhD supervisor in Space and Atmospheric Physics for six students from Tribhuvan University, Kathmandu and also supervised more than 50 MSc students for their MSc dissertations.
- **Editor:** Served as the chief editor of Journal of Nepal Physical Society (JNPS) and other three national journals.

Major Publications and Seminars/Conferences Presentations:

Published more than 50 research articles and paper presented in more than 65 international conferences and seminars. A few of major publications are listed below:

- Poudel, D., S.K. Bhattarai, B. Ghimire, C. Gurung, **N.P. Chapagain** (2019), Study of Variation of Polar Cap Potential during Geomagnetic Storm Events of 24th Nov 2001 and 24th August 2005 as Observed from LFM and BATS-R- US Simulation, *Earth and Space Science*, <https://doi.org/10.1029/2019EA000558>.
- Adhikari, B., N. Adhikari, B. Aryal, **N. P. Chapagain**, I. Horvath (2019), Impacts on Proton Fluxes Observed During Different Interplanetary Conditions, *Solar Physics*, 294: 61. <https://doi.org/10.1007/s11207-019-1450-6>.
- **Chapagain, N. P.**, D. J. Fisher, J. W. Meriwether, J. J. Makela, and J. L. Chau (2013), Comparison of Zonal Neutral Winds with Equatorial Plasma Bubble and Plasma Drift Velocities, *J. Geophys. Res. Space Physics*, 118, doi:10.1002/jgra.50238.
- **Chapagain, N. P.**, M. J. Taylor, J. J. Makela, and T. M. Duly (2012), Equatorial plasma bubble zonal velocity using 630.0 nm airglow observations and plasma drift modeling over Ascension Island, *J. Geophys. Res.*, 117, A06316, doi:10.1029/2012JA017750.
- **Chapagain, N. P.**, J. J. Makela, J. W. Meriwether, D. J. Fisher, R. A. Buriti, and A. F. Medeiros (2012), Comparison of Nighttime Zonal Neutral Winds and Equatorial Plasma Bubble Drift Velocities over Brazil *J. Geophys. Res.*, 117, A06309. doi:10.1029/2012JA017620.
- **Chapagain, N. P.**, M. J. Taylor, and J. V. Eccles (2011), Airglow observations and modeling of F region depletion zonal velocities over Christmas Island, *J. Geophys. Res.*, 116, A02301, doi:10.1029/2010JA015958.
- **Chapagain, N. P.**, B. G. Fejer, and J. L. Chau (2009), Climatology of post-sunset equatorial spread *F* over Jicamarca, *J. Geophys. Res.*, 114, A07307 doi:10.1029/2008JA013911.

Dr. Najam Abbas Naqvi (Associate Professor)

Institute of Space Technology, Islamabad, Pakistan



Position:

1. Program Head (MS – Global Navigation Satellite Systems)
2. Associate Professor – Department of Aeronautics and Astronautics
3. Director - Department of Student Affairs

Qualification:

1. Doctorate of Engineering in GNC with Specialization in GNSS (2009 – 2013)
2. Specialized Masters in Navigation and Related Application – GNSS (2006 – 2007) *United Nations Fellowship, Politecnico Di Torino, Italy*

Country: Pakistan

Affiliation: Institute of Space Technology, Islamabad



Masters of Science (GNSS)

Institute of Space Technology, Islamabad, Pakistan

Program:

1. Started in 2015, based on the curriculum designed by UNOOSA
2. 4th of its kind in the world – IST, 4th University in the world to have this specialized MS program
3. 15 Graduates till date and 40 students currently enrolled and pursuing their research and course work
4. <http://www.ist.edu.pk/aero/graduate/ms-global-navigation-satellite-systems>
5. Developing GNSS Lab under National Center of GIS and Space Applications

The screenshot displays the website for the Institute of Space Technology (IST), specifically the page for the Master of Science (MS) in Global Navigation Satellite Systems (GNSS). The page is titled "MS - Global Navigation Satellite Systems" and is part of the "Graduate Programs" section. The main content area includes a navigation menu with options like "Intro", "Course Outline", "Eligibility", and "Fee Structure". The text describes the program as a specialized Master Program structured according to the GNSS curriculum proposed and designed by the United Nations Office for Outer Space Affairs (UNOOSA). It mentions that the MS GNSS course work consists of eight three credit hours subjects covering specific areas of GNSS (theory, technology and applications) followed by a six credit hours Thesis. The page also lists "Important Links" such as "Secure Internal Resources", "IST Email", "My IST (Members Area)", "Journal Quality Ranking System (JQRS)", "Business Incubation Centre", "Student Research Paper Conference 2019", "Journal of Space Technology", "Office of Research, Innovation and Commercialization", "Center for Advanced Composites and Smart Structures", "Failure Analysis Center", "Astronomy Resource Center", "Geospatial Research and Education Lab (GREL)", "IST Alumni Portal", "Career Opportunities", "Tenders", and "Centre of Excellence - CPEC".



Masters of Science (GNSS)

Institute of Space Technology, Islamabad, Pakistan

Research Areas:

1. GNSS Constellation Design
2. Location Based Services
3. TEC & Earthquake Monitoring and Prediction models
4. Ionosphere & Troposphere modeling
5. GNSS Integrity monitoring solutions
6. Hardware and Software GNSS Receivers
7. GNSS Ambiguity Resolution
8. GNSS Applications with RS & GISc Tools and Techniques

Publications and Funding:

Publications: Journal | Conference

Funding Secured: 70 Million PKR (National Center of GIS & Space Applications)



Dr Minh LE HUY country: VIETNAM
Affiliation : Institute of Geophysics,
Vietnam Academy of Science and Technology
Position : Distinguished researcher

Ionospheric TEC variations
and scintillations in low
latitude region.
GPS application for civil
aviation (in cooperation with
Electronic Navigation
Research Institute , Japan)



The screenshot shows the official website of the Institute of Geophysics (IGP) of the Vietnam Academy of Science and Technology (VAST). The header includes the IGP logo, the name in Vietnamese and English, and contact information: Trại số: Nhà A8 - 18 Hoàng Quốc Việt - Nghĩa Đô - Cầu Giấy - Hà Nội, Tel: +84 24 37564380 - Fax: +84 24 38364696. The main content area is titled 'INTRODUCE' and lists the address, directors (Dr. Nguyen Xuan Anh, Dr. Dang Thanh Hai, Dr. Nguyen Anh Duong, Dr. Nguyen Le Minh), and the Scientific Council members (Chairman: Dr. Le Huy Minh; Vice Chairman: Assoc. Prof. Dr. Nguyen Hong Phuong, Dr. Sc. Ngo Thi Lu, Dr. Dang Thanh Hai; Secretary: Dr. Nguyen Anh Duong). It also lists functions and tasks such as observing geophysics, managing the seismic network, and training PhDs. The 'ACTIVITIES' section includes managing the national geophysical network, studying seismic activity, and performing hazard assessments. On the right side, there are sections for 'FAMOUS SAYING' (quoting Elbert Hubbard), 'SEMINAR KHOA HỌC NGÀY 19/8/2014', 'LINKS' to VAST and the Ministry of Science and Technology, a 'VISITORS COUNTER' showing 1178140 total visits and a daily breakdown (Today: 97, Yesterday: 488, This Week: 1343, This Month: 1822), and the server time: 2020-02-06 09:14:08. At the bottom, it states 'We have 10 guests and no members online'.

Research in the framework of IHY

Sun-Earth System Interaction studies over Vietnam: an international cooperative project

C. Amory-Mazaudier¹, M. Le Huy², Y. Cohen³, V. Doumbia^{4,*}, A. Bourdillon⁵, R. Fleury⁶, B. Fontaine⁷, C. Ha Duyen², A. Koba⁴, P. Laroche⁸, P. Lassudrie-Duchesne⁶, H. Le Viet², T. Le Truong², H. Luu Viet², M. Menvielle¹, T. Nguyen Chien², A. Nguyen Xuan², F. Ouattara⁹, M. Petitdidier¹, H. Pham Thi Thu², T. Pham Xuan², N. Philippon^{**}, L. Tran Thi², H. Vu Thien¹⁰, and P. Vila¹

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²Institute of Geophysics, Vietnamese Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam

³IPGP, 4 Avenue de Neptune, 94107 Saint-Maur-des-Fossés, France

⁴Laboratoire de Physique de l'Atmosphère, Université d'Abidjan Cocody 22 B.P. 582, Abidjan 22, Côte d'Ivoire

⁵Institut d'Electronique et de Télécommunications, Université de Rennes Bât 11D, Campus Beaulieu, 35042 Rennes, cédex, France

⁶ENST, Université de Bretagne Occidentale, CS 83818, 29288 Brest, cédex 3, France

⁷CRC, Faculté des Sciences, 6 Boulevard Gabriel, F 21004 Dijon cédex 04, France

⁸Unité de Recherche Environnement Atmosphérique, ONERA, 92332 Chatillon, cédex, France

⁹University of Koudougou, Burkina Faso

¹⁰Laboratoire signaux et systèmes, CNAM, 292 Rue saint Martin, 75141 Paris cédex 03, France

*V. Doumbia previously signed V. Doumouya



Thanh PHAM XUAN
PhD – physics
On Climate change
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Hong PHAM THI THU
PhD- 2012
On ionosphere and geomagnetism
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Hung LUU VIET
PhD – 2011
On telluric currents
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Dr Le Huy Minh trained with
foreign researchers 6 PhD students



Lan TRAN THI
PhD - physics
on scintillations/GPS
lanttigp@gmail.com



Thanh LETRUONG
PhD - physic, 2015
On Equatorial Electrojet
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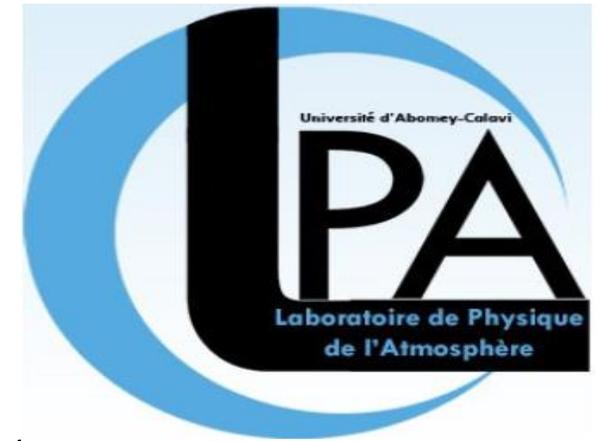


Chien Thang NGUYEN
PhD - physics, 2015
On MSTD/ Demeter satellite
thang045@gmail.com



Dr. ADECHINAN Adébiyi Joseph

Country: BENIN



Affiliation : Laboratoire de Physique de l'Atmosphère /Faculté des Sciences et Techniques/Université d'Abomey-Calavi /Benin

Position : Junior Scientist

His professor Etienne Houghinou was the previous ISWI coordinator

Fields of research: Thunderstorm electricity, atmospheric storms, Ionospheric electrodynamics and upper atmospheric dynamics, ionospheric disturbances, coupling of the atmospheric layers in relation with Climate, Correlation between lightning activity and microphysics, dynamics and thunderstorm structure, Electric field measuring and interpretation, ...



Dr John Bosco Habarulema, South Africa

Affiliations: South African National Space Agency (SANSA), Hermanus, South Africa; web: www.sansa.org.za

Positions: Research Scientist (SANSA) and Research Associate at Rhodes University, South Africa

Research Interests include

- Studying and modelling the temporal and spatial variations of ionospheric parameters such as electron density, vertical drifts and total electron content
- Low latitude ionospheric electrodynamics
- Ionospheric storm effects
- Studies of Atmospheric Gravity Waves especially monitoring travelling ionospheric disturbances during geomagnetically disturbed conditions.

Service to Community

- Vice Chair of Ionosonde Network Advisory Group (INAG, Working Group 1 of International Union of Radio Science, URSI, Commission G) since 2011
- Council member of the South African Institute of Physics since 2015
- Member (2017-current) of the Scientific Advisory committee for the African Initiative for Planetary and Space Sciences (<https://africapss.org/>)
- Chair of the Space Science sub-division of the South African Institute of Physics from July 2014 - July 2016

John Bosco Habarulema Receives 2016 Africa Award for Research Excellence in Space Science

John Bosco Habarulema received the 2016 Africa Award for Research Excellence in Space Science at the American Geophysical Union Fall Meeting Honors Ceremony, held on 14 December 2016 in San Francisco, Calif. The award honors an early-career scientist from the African continent for "completing significant work that shows the focus and promise of making outstanding contributions to research in Earth and space sciences."

