



Registration No. DAO, Kathmandu: 589 Affiliation No. SWC: 47447 PAN No.:607608069

नेपाल भौतिक विज्ञान समाज

Nepal Physical Society

P.O.Box-2934, Tri-Chandra Campus, Ghantaghar, Kathmandu, Nepal

Newsletter

NPS Newsletter

Volume 36 Issue No. 1,

Nov. 2019 (Kartik 2076)

EDITORIAL

Executive Committee (EC) welcomes you all Nepal Physical Society (NPS) members on the 36th Annual General Meeting (AGM). It's around two year of formation this executive body with some aspirations in taking the oldest society of physicists in Nepal to one step up in the development of physics. Without development in physics no one can even think about the development of nation and human kind. This EC completed the registration of NPS, worked on increasing the life members and arranged the scientific national and international conferences, workshops, talk programs in collaboration with other institutes.

At this moment, NPS has many more things to do in future like going ahead to set up its own office of NPS; organizing the national and international conferences and seminars in regular basis; raising the funds to make NPS economically sound etc. We are hopeful that forming new EC will work some steps forwards to achieve fully or partially the mentioned needs of this society.

We hope your last 11 months of year 2019 have passed happily and with great accomplishments. New Year of Christian Era, 2020 is coming after one month. We wish you all a very joyful, great and a wonderful time ahead on the occasion of upcoming New Year 2020.

International Physics Olympiad (IPhO)

Nepal Physical society (NPS) for more than a decade has got responsibility of conducting Nepal Physics Olympiad(NePhO) test for High School Physics and select top 5 students to represent Nepal in International Physics Olympiad (IphO) and Asian Physics Olympiad. This year, it was the 13th NePhO test from which five students Mr. Aayush Gaire (KMC- Kathmandu), Mr. Saroj Baral (Amar Singh H.S. School Pokhara), Mr. Pradip Sharma Poudel (Archid H.S. School-Bharatpur), Mr. Manoj Khatri (Horizon H.S. School Butwal) and Mahesh Khadka (St. Xavier's College, Maitighar) were selected. In the leadership of Prof. Dr. Pradip Bhattarai, President of NPS with Mr. Peependra Parajuli, vice-president of NPS and five students participate in the 50th International Physics Olympiad which is going to be held from July 7-15, 2019 in Tel Aviv, Israel. Mr. Manoj Khatri was returned with **Honorary Mansion** in this 50th IPhO. This EC of NPS wish for better performance of next participating students in 51th IPhO which is going to be held in Lithuania from July 18-26, 2020 AD.

The 36th Annual Convention of NPS

The NPS 36th annual convention is organized on 8- 9 November 2019 (22nd to 23rd Kartik 2076) in the Central Department of Physics, Tribhuvan University, Kirtipur. This convention will be a landmark to integrate all physicists as well as Science lovers for the benefit of individual's progress, national and international interest as well.

In this AGM, there is a talk on upcoming new Syllabus for 11 and 12 classes. by a person associated with NEB in syllabus design. This talk will be followed by another report by Prof. Dr. Binil Aryal about the impact of new curriculum of Physics in another academic sectors in nation. Along with this, there will be Scientific Session in which 10 papers will be presented by different scholars. We believe that the outcome of this convention from the discussion with experts will be fruitful in promoting physics education and research works for the overall development of the nation.

THE NPS NEWS

National Symposium on Research, Development and Innovation in Physics (NSRDIP- 2019) September 3-4, 2019

This conference was organized by Department of Physics, St. Xavier's College, Maitighar Kathmandu in collaboration with Nepal Physical Society. In this symposium, there were more than 180 participants. More than 20 speakers delivered talks and more than 50 graduate and undergraduate students presented posters.

A week long **Workshop on Space Weather and Upper Atmosphere Physics (WSWUAP)** is organized from 23-27 September 2019. This workshop was organized by Department of Physics, Amrit Science Campus, Tribhuvan University, Kathmandu, Nepal in collaboration with Nepal Physical Society. This program was funded by ICTP, Trieste, Italy.

NPS organized one-day interaction program on "Teaching and Research Methodologies" on 4th May 2019 in Padma Kanya Campus.

NPS volunteer in **Second Regional Conference on Women in Physics (RCWIPN 2019)** that took place from 27 to 29 March 2019 at Kathmandu University, Dhulikhel, Nepal.



Honours



NPS has honored Prof. Dr. Kuldeep Raina, the V.C. of DIT University, Dehradun on 5th July 2019 during his visit to sign MOU between DIT University and Tribhuvan University (**Left Photo**).

On behalf of NPS and NePhO, the Nepalese leader of IphO 2019, Prof. Dr. Pradeep Kumar Bhattarai honored Dr. Rajdeep Singh Rawat (President) and Poul Stanley (secretary) of IPhO (**Right Photo**).



CONDOLENCE

The physics community in Nepal also suffered with tragedy after the demise of some of our valued NPS members. Pradip Neupane, life member of NPS passed away this year. Another NPS member and Lecturer of Physics in NASA College Rajesh Kumar Thakur also passed away in motorcycle accident a few months ago. Another life member of NPS and Lawyer by profession Ram Chandra Bohra also left this eternal world this year. This year, NPS suffered from another tragedy after the demise of valued life member Shayama Regmi (Adhikari), Associate Professor in Padma Kanya Multiple campus. She died on 24th Ashoj 2076 B.S.



Lt. Shayama Regmi (Adhikari)

Talk Programs, Scientific Visits and Research Activities

- **Dr. Binil Aryal** presented online talk in “ANPA Monthly Talks Series” titled with “**Future of Astronomy and Physical Cosmology: Nobel Prize in 2019**” on 4th November 2019, 08:00 AM Nepalese time (02:15 GMT).
- **Prof. Dr. N.P. Chapagain and Prof. Dr. Ram Prasad Regmi** visited ICTP from Feb 25 to Mar 1, 2019.
- **Prof. Dr. N.P. Chapagain** participated in AGU Fall meeting held in Washington D.C., USA in Dec. 2018.
- **Prof. Dr. Narayan Adhikari** visited ICTP from 28th September to 28th October 2019 as an Associate Member.
- **Dr. Pitri Bhakt Adhikari** delivered a talk on title “**Different types of lightning electric field waveform observed in Kathmandu, Nepal**” in the 3rd International Conference on Astronomy and Space Science, May 02 - 03, 2019, London, UK.
- **Dr. Yadav Pandit** delivered a talk on title “**From Quark Soup to Ordinary Matter**”. The Talk was organized by NPS on 14th October 2019.
- **Prof. Dr. Arun K. Sharma** from VIT University Chennai delivered a talk on “**Plasma Technology and its impact in Society**” on 5th July 2019. This program had been jointly organized by NPS and Dept. of physics, Amrit Sc. College.
- **Dr. Rudra Aryal** delivered a talk on title “**Long Range Transportation of Air Pollution from Cross-border**” on 17th May 2019. This program is jointly organized by NPS and Department of Physics, Tri-Chandra Campus.
- **Dr. P. B. Adhikari**, Lecturer of Physics in Tri-Chandra M. Campus, delivered a talk on title “**Can we generate electricity from the lightening?**”
- **Dr. Madhav Prasad Ghimire**, Associate Professor, Central Department of Physics, Tribhuvan University, Kirtipur, Kathmandu is awarded with the India Science and Research Fellowship (ISRF-2019) for extending his research collaboration in Indian Institute of Technology – Roorkee, India for three to six months (June, 2019).

- **Asso. Prof. Dr. Madhav Prasad Ghimire**, CDP, TU had been invited as a Keynote Speaker on the International seminar on Correlative Advancement on Analytical and Applied Physics, Darjeeling, India during 21st - 22nd October, 2019. Dr Ghimire presents his recent research work on “**Dirac fermions and flat bands in FeSn & Creating Weyl Nodes by Magnetization Rotation in a Co₃Sn₂S₂**”.
- **Asso. Prof. Dr. Madhav Prasad Ghimire**, CDP, TU presented his research work entitled “**Creating Weyl Nodes and Tuning Their Energy by Magnetization Rotation in a Metallic Ferromagnet**” in the American Physical Society March Meeting 2019 (March 4th - 8th, 2019).
- **Dr. B. Adhikari**, Lecturer in St. Xavier’s College, Maitighar, participated in “**27th Workshop on Space Technology for Socio-Economic Benefits: “Ensuring inclusiveness through space-based applications and space exploration.”** Washington D.C., USA, 18-20 October 2019. Title of his talk was “**Loss, Acceleration and Transport of Relativistic Electrons during Geomagnetic Disturbances**”.

Congratulations

- NPS like to congratulate **Asso. Prof. Dr. Madhav Prasad Ghimire** for his paper being accepted in **Nature Materials (coming online after Nov. 15, 2019)**. He has co-authored paper “Dirac fermions and flat bands in the ideal kagome metal FeSn” arXiv:1906.02167v1 (2019).
- NPS like to congratulate **Dr. Sri Ram Sharma**, NPS life member on his appointment as a chairman in “**South Asian Lightning Network**”.
- NPS would like to congratulate **Dr. Lila Pradhan Joshi, Dr. Ishwor Koirala and Dr. Rajendra Parajuli** to be appointed as a Professor in Physics in the Tribhuvan University. Likewise, NPS also wants to congratulate **Dr. Nurapati Panth, Dr. Manoj Kumar Mishra, Dr. Ram Koirala and Dr. Ghanshyam Thakur** as being appointed as an Associate Professor in Physics in the Tribhuvan University.
- NPS would also like to congratulate and extend best wishes to recently PhD graduates in Physics, **Dr. Arjun Gautam, Dr. Saran Lamichhane, Dr. Kishori Yadav, Dr. Ghanshyam Thakur and Dr. Pitri Bhakt Adhikari** from Tribhuvan University.
- NPS also like to congratulate life member of this society **Dr. Hem Raj Sharma** for being elected as a **General Secretary of Non Resident Nepali Association (NRNA)** for 2019-21.

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