

## Subhash Sharma

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<b>EDUCATION</b>	<b>Tribhuvan University</b> , Kathmandu, Nepal	
	<b>Patan Multiple Campus:</b> <i>Master of Science in Physics</i> Dissertation: <i>Electrical characterization of atmospheric pressure dielectric barrier discharge (AP-DBD) in argon gas</i> , resulting in a publication: LEC Journal, vol.1, no. 1, pp. 36-43, 2018. ISSN: 2565-5205 (print) Supervisor: Prof. Dr. Deepak Prasad Subedi, Director-RDC, Kathmandu University	PatanDhoka, Lalitpur 2017
	<b>Tri- Chandra Multiple Campus:</b> <i>Bachelor of Science with major Physics</i>	Ghantaghar, Kathmandu March 2013
<b>GRANT</b>	I am the one out of two "ICPS Worldwide Grant" receivers to attend the International Conference of Physics Students (ICPS 2019) participated by more than 500 physics students around the world in Germany. 2019	
<b>AWARD</b>	Editing Award, Journal of PMC Physics Council (JPPC), ISSN: 2616-003X (print) By Patan Multiple Campus, Tribhuvan University, Nepal	2018
<b>LABORATORY EXPOSURE</b>	European Organization for Nuclear Research (CERN), Geneva, Switzerland	2019
	Nuclear Physics Laboratory, University of Cologne, Germany	2019
	Institute for Plasma Research (IPR), Gandhinagar, Gujarat, India	2017
	Indian Institute of Science (IISc), Bangalore, India	2016
<b>SELECTED COLLOQUIA AND CONFERENCES</b>	5th International Conference on Particle Physics and Astrophysics (ICPPA 2020), Moscow, Russia, October 5-9, 2020. (Virtual)	
	34th International Conference of Physics Students (ICPS 2019), University of Cologne, Cologne, Germany, August 10-17, 2019. ( <i>Oral and Poster Presentation</i> )	
	4th International Conference, Kathmandu Symposia On Advanced Material (KASAM-2018), Kathmandu, Nepal, October 26-29, 2018. ( <i>Invited Oral/Paper Presentation</i> )	
	International Conference on Nano-Materials and Computational Physics (ICNMCP-2017), Central Department of Physics, Nepal, December 27-28, 2017. ( <i>Poster Presentation</i> )	
	32nd National Symposium on Plasma Science and Technology (PLASMA-2017), Institute for Plasma Research, (Gujarat) India, November 07-10, 2017. ( <i>Poster Presentation</i> )	
	3rd International Conference, Kathmandu Symposia On Advanced Material (KASAM-2016), Pokhara, Nepal, October 17-20, 2016.	
	7th National Conference on Science and Technology, Nepal Academy of Science and Technology, Kathmandu, Nepal, March 29-31, 2016.	
	1st Space Development Network Conference ASIA, Indian Institute of Sciences (IISc.) Bangalore, India, January 9 -10, 2016. ( <i>Invited Delegate from Nepal</i> )	

## **SELECTED SCHOOL AND WORKSHOP**

**International School for Strangeness Nuclear Physics (SNP School 2020)** at J-PARC, Tokai, Japan, December 2-5, 2020.

**3rd International Workshop on Tracking Detectors in High Energy Physics (HEP)-2020** - Virtual: Organized by National Centre for Physics (NCP) Pakistan, October 19-21, 2020.

**9th School on LHC Physics** - Virtual: Organized by Experimental High Energy Physics Department (EHEPD) at National Centre for Physics(NCP) Pakistan, August 17-21, 2020.

**ICTP - Physics Without Frontiers (PWF), Winter School:** Jointly organized by ICTP and US-ATLAS, in Kathmandu University, Nepal, December 19-21, 2018.

**South Asian High Energy Physics Instrumentation (SAHEPI-2017):** Workshop on detector technology and application, jointly organized by Kathmandu University and CERN, in Kathmandu University, Nepal, June 20-21, 2017.

**International Workshop on Nanomaterials for Energy Conversion, Emerging Photovoltaic and Optoelectronic Technologies (NEEPO-20)** - Virtual: Organized by National Centre for Physics (NCP) Pakistan, September 7-8, 2020.

**Winter Lecture Series On Natural Sciences:** Technique and Philosophy in Physical Sciences, Organized by Tribhuvan University, Nepal, February 10-12, 2019.

**1st Kathmandu Astrophysics School (KAS16):** Organized by University of Melbourne, Australia, in Kathmandu, Nepal, October 24-28, 2016.

**School on Astronomy and Space Science:** Organized by Government of Nepal, Ministry of Science and Technology, B.P Koirala Memorial Planetarium, Observatory and Science Museum Development Board, Nepal, June 13-15, 2016.

## **WORK EXPERIENCE**

**Co-Editor: Journal of International Association of Physics Students (JIAPS), Mulhouse, France**

August 2020

JIAPS is an annual journal of Physics published by International Association of Physics Students IAPS and freely distributed during ICPS, the International Conference for Physics Students, every year. I wrote the feedback of each article, plagiarism checking, and overall amendments of JIAPS and attended the regular meeting of the editorial board for the masterpiece of JIAPS - 2020.

**Associate Editor: Journal of PMC-Physics Council (JPPC)**

January 2018

JPPC is an annual journal of Physics published by PMC- Physics Council; Patan Multiple Campus, Tribhuvan University. Following the publishing of its first Volume, I called the articles, did entire amendments of them, led and coordinated an editorial team, and professors for peer review of JPPC.

**Editor-in-Chief/ Director: “Scientific Mind” National Bimonthly**

March 2016- March 2019

I am the editor and managing director of national bimonthly science magazine of Nepal -“Scientific Mind”. From its first publication, I led a publishing team and directing the magazine to standardized and make it an international reput. For now, tens of thousand readers are benefited from it. It clearly reflects the development of publishing culture of students and young science enthusiasts of Nepal.

## **Vice-President: Nepalese Space Research Association (NESRA)**

April 2019 - Present

I am currently working as Vice-President in NESRA. NESRA is a non-profit organization, which aims to promote space industry in Nepal by regularly organizing activities like the National Space Meet of Nepal, workshops aimed towards building capacity in the space sector and fetch international collaborations in order to foster environment for space industry to flourish in Nepal. NESRA also provide young students and professionals a platform for them to develop their career in the space sector. NESRA organizes the National Space Meet of Nepal every year in order to emphasize on the fact that space can help boost socio-economic sectors of a developing nation.

## **LEADERSHIP**

### **Nepal Head: Space Development Nexus (SDNx)**

Feb. 2016- Present

SDNx is a global cooperative of students, researchers, and scientists. I am working with SDNx's education and outreach to recruit students and young professionals from Nepal for SDNx events and workshops. I was set up the meeting of SDNx founders with the ministry of science and technology, Nepal for a private satellite communication system.

### **Founding Vice-President: PMC-Physics Council**

Nov. 2016 - Nov. 2017

To involve the university students in the scientific community and develop their scientific culture, I had coordinated the campus administration and students to establish an ever first "Physics Council" in Patan Multiple Campus, Tribhuvan University. During my tenure as vice-president, I coordinated and led the team to organize different events, workshops, seminars and started to publish monthly wall magazine of physics "Physics Explorer". I was able to take the Physics Council in its another praise level by starting its annual publication and monthly wall magazine.

### **Event Co-ordinator: Space Generation [Nepal]**

July 2019

Space Generation [Nepal] is first local event of Space Generation Advisory Council (SGAC) in Nepal, SGAC is a global non-governmental non-profit organization which aims to represent university students and young space professionals to United Nations, space agencies, industry, and academia.

### **Event Co-ordinator: National Space Meet of Nepal**

July 2019

The purpose of that event was to gather together people who are passionate to enhance interdisciplinary professional network and exchange of ideas regarding the future of the space field. The event was co-organized by (SGAC) in support of the United Nations Programme on Space Application.

## **ORGANIZER**

### **First National Space Meet Nepal**

July 2018

I am with the team organized the first National Space Meet Nepal in the Nepal Academy of Science and Technology (NAST). This was the first of a series of space meet to be held every year in Nepal to strengthen the United Nation (UN)s ties with Space Generation Advisory Council (SGAC) and space enthusiasts of Nepal.

### **National Science Exhibition**

February 2018

I am with the team organized the National Science Exhibition in Lalitpur, Nepal. That was the Ministry of Science and Technology initiative first national level science exhibition with (Scientific Mind) magazine. Thousands of visitors and around fifty stall valued the exhibition. I invited the exhibitors, prepared the sessions and moderated the program for the whole two days.

**Panel Discussion: Scientific Process in Nepal**

March 2018

I led the session dedicated towards the promotion and development of science and scientific process in Nepal, held at Research Centre for Applied Science and Technology (RECAST), Tribhuvan University, Nepal. I prepared the agendas, led the discussion and prepared the summary of the discussions.

**Scientific Talk: Satellite for Nepal**

September 2018

I was a convener of one day scientific talk program; Satellite for Nepal held at Liverpool International College, Kathmandu, Nepal.

**Scientific Talk: Application of Physics in Context of Nepal**

November 2016

I coordinated the program and invited the guest speakers.

**AFFILIATIONS**

Life-Time Member of **Plasma Science Society of India (PSSI)**, Physical Research laboratory Ahmedabad-380009. Membership No: **1439**

Matching Member of **American Physical Society (APS)**, (under fund categories). <https://www.aps.org/memb-sec/profile/Profile.cfm>. Member ID: **61199611**

**ADDITIONAL PUBLICATIONS**

Electrical Characterization of An Atmospheric Pressure Dielectric Barrier discharge (DBD), *Journal of Lumbini Engineering College (LEC-Journal)* vol.1, no. 1, pp.36-43, 2018. ISSN: 2565-5205 (print)

Electrical Characterization of An Atmospheric Pressure Plasma Jet, *Journal of Nepal Physical Society (JNPS)* vol.5, issue 1, pp.85-90 October 2019. ISSN: 2392-473X (print)

Article on the title *High Energy Physics, Nuclear Fusion and Plasma State* has been published in "Scientific Mind" magazine, page 7-8, Issue 5, vol.1, 2017.

Article on the title "*Antimatter Measurement Leads to a Better Understanding of Our Universe*" has been published in "*Physics Explore*" vol.2, 1st February 2017.

Articles, news and interview to the different professionals from science and technology field has been published in Page 7-8, 22-23 Issue 1, Page17-18, Issue 2, Page 16-18, Issue 4, Page 33-34, Issue 6, of "Scientific Mind" magazine.

**ACADEMIC MENTORING**

Project supervision of M.Sc. student Mr.Suman Shrestha, in partial fulfillment for the requirement of master degree of science in physics of Tribhuvan University.

**TECHNICAL SKILL**

**Laboratory:** Generation and electrical characterization of atmospheric pressure plasma, plasma diagnostics, polymer treatment, ozone generation, plasma jet characterization.

**Computer:** MS office, Python, C++

**Remote Work:** Slack, Zoom, RemoteHQ, Google Meet, Microsoft Team

**Language:** English, Nepali, Hindi

**REFERENCES**

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