



Newsletter

नेपाल गणित समाज

NEPAL MATHEMATICAL SOCIETY

Established in 2035 BS (1979 AD)

website : www.nms.org.np

Issue No.14, May 2018

Editorial

First of all, we would like to take the opportunity to wish you all a joyful new year 2075 BS marked by good health, peace and prosperity, as well as by some innovative ideas in Mathematics. Nepal Mathematical Society (NMS) is an organization for Mathematics professionals in Nepal and abroad. NMS regularly conducts different activities such as workshops, seminars, monthly talk programs, national and international conferences and symposiums. NMS understands the significance of mathematics for modern era. Continuous interactions among mathematicians in emerging issues of teaching, learning, training and research focusing on diverse scopes of mathematics are also carried out.

We are very much delighted to bring out this fourteenth issue of the NMS newsletter on the auspicious occasion of its 40th anniversary. The newsletter highlights the activities of the society and its members during 2074 Baishakh to 2075 Baishakh (April 2017 to May 2018). In each issue of newsletter, we include an interview and a brief biography of some well-known mathematicians from Nepal. In this issue, we have included an interview of Prof. Dr. Krishna Kumar Shrestha and a brief biography of Prof. Yadav Prasad Koirala.

From the past few decades, NMS is actively involved in various activities to uplift the status of Mathematics in Nepalese context. To revive Mathematics as a popular discipline is one of the greatest challenges to all of us. We strongly believe that NMS can play a crucial role to ensure fast progress of mathematical activities and to give positive message about popularization of mathematics among mathematical and non-mathematical communities. Therefore, the present executive committee has always tried to be active and sincere in this direction. We are grateful to our valued life members and other organizations that have supported us in many ways, and also for their kind cooperation to strengthen the activities of NMS. At the same time, we would like to thank all those organizations who have expressed their best wishes on our 40th anniversary through this newsletter. Finally, we request you all for your similar coordination and support for the days to come.

Editorial Board

Chief Editor : Prof. Dr. Narayan Prasad Pahari

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: Mr. Jeevan Kafle

Message from the President

It is a special honor and privilege to undertake my responsibility since August 2015 as the president of Nepal Mathematical Society (NMS). On behalf of the NMS and its Executive Committee (EC), I would like to highly acknowledge the tremendous efforts of our predecessor presidents, EC members and all bona fide NMS life members for bringing the society at this stage. NMS has dedicated itself for achieving the academic excellence in study, teaching, research and applications of mathematics. Promotion of the professional ethics, rights, welfare and increasing popularity of mathematics are our goals. The NMS, also a member of AMS, and an associate member of IMU and SEAMS, welcomes the experts from abroad. From the year 2016, NMS became a member of Silkroad Mathematics Center of Chinese Mathematical Society in Beijing, and also a member of TIMC, India since 2017. NMS has been working in establishing academic links nationwide and abroad.

NMS has been organizing many scientific events on relevant topics with its own initiations and national and international collaborations. NMS organized the international conference ANMS-2016 in Kathmandu jointly with ANMA, Tribhuvan University and Kathmandu University. The society also organized a national conference NCMA-2017 in collaboration with different universities in Nepal. NMS collaborated a national conference, NCHRTM-2017 organized by Nepal Sanskrit University in Kathmandu in 2017 and also made a collaboration with ORSN in organizing APORS-2018 in Kathmandu. I would like to appreciate the great efforts by all members. We feel the need to organize more programs on some crucial issues such as the role of mathematics in society, industry and various fields, developing students' interest in mathematics and simplification of mathematical concepts in teaching.

NMS felicitates senior mathematicians and encourages the young mathematicians and students to come forward in mathematical research. It has established a NMS-ANMA scholarship from last year. NMS has already launched the International Journal of Nepal Mathematical Society (JNMS) since 2017. The proceeding of the NCMA-2017 has also been published. It also celebrates its anniversary every year and publishes its newsletter highlighting its activities and achievements of its life members. This energetic NMS EC team has a vision that, there is a lot more that NMS needs to do and hence targets to increase its activities. The society is open to all the people involved in mathematics, and believes that it will get stronger and more efficient through the feedbacks and contributions of its members.

Sincerely yours,

Prof. Dr. Tanka Nath Dhamala
President, NMS

A Glimpse of the Activities of Nepal Mathematical Society (May 2017- May 2018)

39th Anniversary of NMS

Opening Session

- Date: Saturday May 29, 2017 (Jestha 13, 2074)
- Venue: Central Department of Mathematics, TU
- Chief Guest: Prof. Dr. Kul Prasad Koirala, Vice-Chancellor of Nepal Sanskrit University.
- Chairperson: Prof. Dr. Tanka Nath Dhamala, President of NMS
- Special Guest : Dr. Buddhi Ratna Khadgee, Secretary, NAST.
- Other Guests: Prof. Dr. Deepak Prasad Subedi, Assoc. Dean, KU, Prof. Dr. Pradeep Bhattarai, President, Nepal Physical Society.
- Past-NMS Presidents: Prof. Ram Man Shrestha, Prof. Bhadra Man Tuladhar , Prof. Shankar Raj Pant.
- Welcome Speech: Prof. Keshav Sitaula, NMS EC Member
- Vote of Thanks: Prof. Dr. Narayan P. Pahari, NMS Vice-president.

During this session, the 13th issue of the NMS Newsletter, the Proceeding of National Conference on Mathematics and its Applications (NCMA-2017), and the Journal of Nepal Mathematical Society (JNMS) were launched.

Felicitations

The following senior mathematicians were felicitated on the occasion of the 39th Anniversary of NMS:

1. Prof. Dr. Bhadra Man Tuladhar
2. Prof. Dr. Hira Bahadur Maharjan
3. Prof. Dr. Basu Dev Upreti
4. Prof. Dr. Dal Bahadur Adhikari
5. Prof. Dr. Lalata Prasad Jaiswal
6. Mr. Vigyan Shrestha
7. Mr. Kush Lal Pradhan

The following recent six PhD holders in mathematics from different universities were honored with the Token of Love.

1. Dr. Ruma Manandhar (TU)
2. Dr. Neelam Subedi (NSU)
3. Dr. Pawan Karn (India)
4. Dr. Khageshwor Mandal (India)
5. Dr. Madhav Prasad Sharma (USA)

The following Nepalese mathematicians were honored with the "Token of Love" for receiving awards from NAST.

1. Dr. Saraswati Acharya and Dr. Urmila Pyakurel for the Young Scientist, TWAS award.
2. Prof. Dr. Tanka Nath Dhamala for NABIL Science and Technology award.

The following students of Central Department of Mathematics received NMS-ANMA fellowship.

1. Mr. Lila Prasad Bagale
2. Ms. Susmita Shrestha

Mr. Ananda Krishna Shrestha, the proprietor of Sukunda Publication, handed over the amount of NRs. 35, 000.00 and a sound system to NMS. We highly appreciate Mr. Shrestha for his contribution to NMS.

On behalf of the awardees and honored personalities, Dr. Ruma Manandhar and Prof. Dr. Bhadra Man Tuladhar thanked the organizers for remembering them all for their contributions. Prof. Dr. Kedar Nath Uptery, Prof. Dr. Ram Man Shrestha, Prof. Dr. Deepak Bhattarai and Dr. Buddhi Ratha Khadgee congratulated all awardees and highlighted the need of improvement of mathematics education from school level to higher levels.

In the opening remarks, Prof. Dr. Kul Prasad Koirala emphasized the need of academic freedom. The chairperson, Prof. Dhamala highlighted the achievements of NMS in this year: the association of NMS with Silk Road Mathematics Center, Beijing, China. He informed that very soon NMS would be going to be associated with Mathematics Consortium, India. He highly appreciated the joint effort of NMS, ANMA and mathematics departments of TU, KU and NSU for organizing different events for young students. As Master of opening ceremony, NMS Secretary Prof. Kanhaiya Jha highlighted the NMS activities of these years and urged the needs of further involvements in it for the betterment.

The reporters of this session were NMS EC members Prof. Dr. Chintamani Pokharel and Dr. Samir Shrestha. The technical support was coordinated by NMS EC member Mr. Khagendra Adhikari where as the registration and the membership desk were managed by NMS EC members Mr. Ganesh Basnet and Mr Jeevan Kafle.

Scientific Session

Chair Person: Prof. Dr. Basu Dev Upreti

Rapporter: NMS Joint-Secretary, Mr. Parameshwari Kattel

Scientific Talks by: Prof. Dr. Shankar Raj Pant with topic *History of Mathematics* and by Dr. Madhav Prasad Sharma with topic *Maximally Pruefer Rings*.



NMS Chitwan Chapter

Chitwan chapter of NMS has recently been formed with the following Executive Committee.

- | | |
|-----------------|---|
| President | : Prof. Dayaram Paudyal |
| Vice President | : Rajaram Acharya
Maniraj Mahato |
| Secretary | : Ramesh Sharma |
| Joint Secretary | : Harish Chandra Dhakal |
| Treasurer | : Premasagar Bhandari |
| Members | : Bhupendra Dhital
Dipendra Chaudhary
Bishnu Prasad Dhakal
Keshav Raj Adhikari
Purushottam Dawadi |

Publication of the *Journal of Nepal Mathematical Society (JNMS)*

The Journal of Nepal Mathematical Society (JNMS) (ISSN : 2616-0153 (Print), 2616-0161 (Online: http://www.nms.org.np/jnms/Vol_1_Issue_1_Year-2018.html)), Volume-1 and issue-1, 2018, has been published both in online and in print form in February 11, 2018. It contains seven research papers in different fields of pure and applied mathematics. The editorial board would like to request and invite research scientists/scholars nationally and internationally to submit their papers for the upcoming issues. NMS would like to acknowledge Mr. Ananda Krishna Shrestha (Sukunda Pustak Bhandar, Kathmandu, Nepal) for the financial support on the publication of the Journal in the print form of this issue.



Contents of the first issue of JNMS:

SN	Paper number	Author(s)	Page
1	JNMS-2018-013	Dempe S, Luo G and Franke S	1-10
Title	Pessimistic Bilevel Linear Optimization		
2	JNMS-2018-011	Gotzes U and Gotzes C	11-17
Title	The Jeep Problem: A Flexible MIP Formulation		
3	JNMS-2018-012	Jha K	18-21
Title	Generalized Common Fixed Point Result in Banach Space		
4	JNMS-2018-010	Kafle J and Tuladhar BM	22-29
Title	Landslide-Water Interaction for Partially Submerged Landslide		
5	JNMS-2018-008	Mandal K	30-37
Title	β –Change of Riemannian Space and Special Cases of one-form β		
6	JNMS-2018-001	Pyakurel U	38-49
Title	Generalized Contraflow for Evacuation Planning Problem		
7	JNMS-2018-006	Shah R	50-56
Title	Some Symmetric Curvature Conditions on Kenmotsu Manifolds		

NMS as an Associate Member of TIMC

Nepal Mathematical Society received an associate membership of The India Mathematics Consortium (TIMC). TIMC is a Consortium of Mathematical Societies and Institutions in India and it will also include Mathematical Societies/Institutions from SAARC Countries. NMS wishes for a long term collaboration with the TIMC for the promotion of Mathematics. NMS, CDM (TU) and TIMC representative Prof. S.A. Katre, (Treasurer, TIMC) conducted a joint meeting in Kathmandu for the possible collaboration in the days to come.

NMS- ANMA Fellowship 2018

The two students Ashok Bahadur Badaila and Sanskriti Dhakal of Central Department of Mathematics, Tribhuvan University are going to be awarded by NMS-ANMA Fellowship in 2018. The fellowship has been jointly established by Nepal Mathematical Society (NMS) and Association of Nepalese Mathematicians in America (ANMA).

National Conference on History and Recent Trends of Mathematics-2017 (NCHRTM-2017)

Department of Mathematics, Balmeeki Campus, Nepal Sanskrit University organized NCHRTM-2017 during June 2-4, 2017 (Jeshtha 19-21, 2074) in collaboration with Central Department of Mathematics (Tribhuvan University), Department of Natural Sciences (Kathmandu University) and Nepal Mathematical Society. The main objective of the conference was to bring together mathematicians, researchers, and students in one platform to interact with each other to share their knowledge and experiences as well as to exchange views and discuss the topics of mutual interest in the field of history and widely applied area of mathematical sciences.

The program was divided into 16 sessions: the inaugural session, 14 scientific sessions, and the closing session. The venue of the conference was Nepal Academy, Kamaladi, Kathmandu.



The chief guest of the inaugural session was Prof. Dr. Kul Prasad Koirala, the vice chancellor of Nepal Sanskrit University. Mr. Kishor Gautam, head of department of mathematics, Balmeeki campus was chairperson of this session. Chief Guest inaugurated the program by lighting the lamp with Vedic Mantra from Batuks. Mr. Jayanta Acharya, member of organizing committee provided the holy garlands of Rudraksha to all invited guests. Mr. Jeevan Kafle, the member secretary formally welcomed to all guests, speakers, contributors and participants of the conference. Dr. Dinesh Panthi, the convener highlighted scientific and overall activities of the conference. Dr. Bimala Sharma, president of Teacher's Association, Balmeeki Campus Unit, Prof. Dr. Narayan P. Pahari, vice-president of Nepal mathematical Society, Dr. Ganesh Prasad Ghimire, Chief of Balmeeki campus, Prof. Dr. Siddhi Prasad Koirala President of Nepal Mathematics Centre, Prof. Dr. Kanhaiya Jha, Secretary of Nepal Mathematical Society, Dr. Dil Bahadur Gurung, HoD of Department of Natural Sciences, Kathmandu University, Prof. Dr. Hukum Singh, NCERT, New Delhi India, Mr. Rameshwor Upadhyaya President of Nepal University Teachers' Association, Dr. Nav Raj Kattel, President of Nepal Sanskrit University Teachers' Association and the Chief Guest Dr. Kul Prasad Koirala expressed their greetings, views and remarks for the success of the conference.

A total of 116 abstracts were presented, among them 4 were from the USA, 8 from India and 1 from UAE, and the rests were from Nepal. A total of 170 participated in the conference.

The last session of the conference was the closing session, where Prof. Dr. Ram Man Shrestha was the chief guest. Mr. Rudra Hari Gyawali, Mrs Dhana Kumari Thapa and Mr. Shanti Krishna Adhikaree shared their experiences during the conference. Dr. Dinesh Panthi, convener of the event, highlighted the activities and its relevance to promote research activities in native land. Prof. Dr. Hukum Singh pointed out the importance the conference. Mr. Arjun Adhikari delivered the vote of thanks. Finally, the chairperson Mr. Kishor Gautam concluded the sessions. Mr. Krishna Kant Parajuli remained MC for both the inaugural and closing sessions.

Presentations in NCHRTM-2017

- Prof. Dr. Shankar Raj Pant: *A Discussion on Time: Pauranic and Scientific Ways* काल गणना: पौरस्त्य र पश्चात्य विधि
- Dr. Deepak Basyal: *Can Nepali Historical Sources of Mathematics be used in the Teaching and Learning of Undergraduate Mathematics?*
- Dr. Ghanashyam Bhatt: *Wavelet Theory: A Historical Prospective*
- Dr. Saraswati Acharya: *A Model for the Thermoregulation Response on Sweating in Human Males and Females' Body*
- Puskar Raj Pokhrel: *A Generalized Quasi Two-Phase Mass Flow Model*
- Bishnu Hari Subedi: *Escaping Set of Transcendental Semi-Group*
- Jivandhar Jnawali: *Some Third Order Methods for Solving Nonlinear Equations*
- Bindra D. Shakya: *Girls Students in Mathematics: A Diagnostic Study*
- Prof. Dr. Kanhaiya Jha: *Recent Development of Metric Fixed Point Theory*
- Ramesh Chandra Timsina: *Flow of Water in a Porous Media (Soil)*
- Shyam Sundar Sah and R. P. Ghimire: *Developing History of Reliability Models and its Recent Applications*
- Khagendra Adhikari: *Ramanujan Primes*
- Anup Tuladhar: *Dynamical Study of HIV Transmission Model*
- Dr. Ram Prasad Ghimire: *History of Queueing System and its Applications*
- K.K. Chaudhary and Dr. R.R. Thapa: *Equation of Motion of Sitnikov's Problem to Four Body*
- Anjana Pokhrel: *Algebraic Properties of Toeplitz Operators on Bergman Space*
- Prem Shah: *Chain and Antichain Families of Poset and Orthogonality*
- Kumar Subedi: *On Brouwer's Fixed Point Theorem*
- Dr. Umesh Rajopadhyaya: *Development of Semi-Metric Space and Common Fixed Point Theorem*
- Iswar Mani Adhikari: *Transit Dependent Vehicles on Evacuation Planning*
- Dr. Shree Ram Khadka and Phanindra Prasad Bhandari: *Maximum Flow Evacuation Planning Problem without Flow Conservation Aspect*
- Ramesh Khanal: *Customers Attitude on E-Security to Smart Cards at Narayangarh: Technology Satisfaction*
- Dr. Samir Shrestha: *Direct Simulation Monte Carlo (DSMC) Method to Study the Motion of a Piston in a Rarefied Gas Driven by Temperature Gradient*
- Pawan Kumar Karn: *Applications of Ultraproduct*
- Prof. Dr. Santosh Man Maskey: *Civilization and Mathematics*
- Dr. Sushil Chandra Karna: *Oscillation of the System in the Elliptical Orbit (Non-Resonance)*
- Ramesh Gautam: *Continued Fraction, Solution of Pells-Fermat Equation and Rational Approximation*
- Shiv Prasad Gupta: *Flow Dependent Transit Time Dynamic Flow for Evacuation Planning*
- Himalaya Ghimire and Ram Prasad Ghimire: *Reliability and Availability of Repairable Machines Operated Under Periodic Surveillance Test with Various-Failure Provisions*
- Prof. Dr. R. N. Yadav, S. R. Pathak and S.K. Chakrabarti: *Local Switching of Simple Fushimi Trees*
- Dr. Eka Ratna Acharya: *Historical Time Line of Mathematics Practices in Nepal*
- Ram Chandra Dhungana, Urmila Pyakurel and Tanka Nath Dhamala: *Lane Based Generalized Flows in Lossy Network for Evacuation Planning*
- Kabita Luitel: *Effect of Blood Perfusion and Metabolic Heat Generation for Temperature Distribution in Human Body*
- Tek B. Bhudathoki: *Denseness of $NA(X, Y)$ in $L(X, Y)$*
- Prof. Dr. H.N. Bhattarai: *Antinomies in Set Theory and Axiomatics*
- Dr. Dil B Gurung: *Numerical Methods with Python*
- Dr. Kedar Nepal and Dr. Deepak Basyal: *How did American Mathematics Instructors of Nepali Origin Change their Perspectives Of Teaching And Learning Of Undergraduate Mathematics?*
- H. N. Upadhyaya: *Mathematics by Our Name*
- Krishna Kanta Parajuli: *The Beauty of Vedic Mathematics*
- Parameshwari Kattel: *Numerical Experiments on Flow-Obstacle-Interaction Using General Two-Phase Mass Flow Model: An Energy Analysis*
- Hari Nandan Nath: *Bi-level Optimization in Emergency Evacuation Planning*
- Raj Kumar Pradhan and Samir Shrestha: *Comparative Study of Interacting and Non-Interacting Microscopic Pedestrian Motion and Numerical Simulation*
- Prof. Dr. Kedar Nath Uprety: *Some Applications of Differential Equations*
- Dr. Shree Ram Khadka: *On Inter-Mixed Sequencing of a Variety of Models Under Just-in-time Production Systems*
- Dr. K. B. Manandhar: *Development of Fuzzy Set and Fuzzy Metric Space*
- Dr. Ruma Manandhar: *Sources of Learning Difficulties in Learning Abstract Algebra*
- Khim B. Khattri: *High Resolution Simulation of a Generalized Quasi Two-Phase Mass Flow*
- Ganga R. Phaijoo and Dil B. Gurung: *Seir Model of Dengue Disease: Determining Important Parameters in the Spread of the Disease Through Sensitivity Analysis*
- Prof. Dr. Bhadra Man Tuladar: *Life and Work of Academician Israel Moiseevich Gelfand*
- Dhana Kumari Thapa: *Gender Differences in Studying and Teaching Mathematics: University Mathematics Teachers' Perceptions*
- Suresh Ray, Dinesh Panthi, K. Jha, S.K. Mishra: *Some Sequence Spaces, Matrix Transformation and Vedic Relations*
- Prof. Dr. Parkash Muni Bajrachrya: *Problem Posing and Problem Solving*
- Dr. Gokul K.C. and D.B. Gurung: *Mathematical Model of Thermal Effects of Blinking in Human Eye*
- Gaj Ram Damai and Prof. Dr. Prakash Muni Bajracharya: *Frechet and Gateaux Derivatives and their Renormings on Banach Spaces*
- Ananda Prasad Pant and Ram Prasad Ghimire: *Mathematical Model of $M[X]/M/1/N$ Queueing System with Multiple Vacations and Server Breakdowns*
- Pavan Kumar Jha, Dinesh Panthi and Kanhaiya Jha: *Historical development of some fixed point theorems in metric space with single mapping*
- R. N. Yadav and K.K. Kaushik: *Two Proofs of Bertrand's Postulate*
- Ramashish Yadav: *Mathematics and Game Theory*
- Prof. Dr. R. M. Shrestha: *School Sector Development Plan and Nepal's National Curriculum Framework for Mathematical Sciences from kg-12*
- Dr. Khageshwar Mandal: *β -Change of Berwald Connection*

- Dr. Neelam Subedi: *Historical Development of Numeral Systems in Different Civilizations*
- Ananta Acharya: *Contribution of Hindu Mathematicians to Approximate the Value of π*
- Jeevan Kafle: *Impact of Submarine Landslides in Water Reservoirs: Variation of Positions of Obstacle*

NMS Picnic 2018

Nepal Mathematical Society has successfully organized a picnic at Suwarneshwar Mandir, Ganesh Man Singh Park, Bhaktapur on Falgun 26, 2074. More than 100 NMS life members were present and made the picnic a grand success. The main objective of the picnic was to bring together its life members through non academic extracurricular and cultural activities to interact with each other and get refreshed.

The picnic organizing committee was coordinated by Tulsi Prasad Nepal with the members Parameshwari Kattel, Dr. Samir Shrestha, Mrs. Kabita Luitel, Mrs. Gita Shrestha, Mr. Khagendra Adhikari and Mr. Jeevan Kafle.



Nepal-UK Cooperation Workshop in Disaster Management

A workshop on Optimization Models for Disaster Resilience in Nepal had been organized jointly by Central Department of Mathematics (TU) and Lancaster University, UK on September 1-2, 2017. The participants were welcomed by the HOD Prof. Dr. Kedar Nath Uprety. In the occasion, the Dean of IOST, Prof. Ram Pd. Khatiwada and the Executive Director of International Relations at TU, Prof. Bhupa Pd. Dhamala made their valuable comments. The undersecretary of the home ministry Mr. Chakra Pani Pandey, DIGP Mr. Sarbendra Khanal and DSP Mr. Mukunda Marsani had also presented their papers on their related fields. The program organizing partners, Dr. Mark Goerigk from Lancaster University, UK and Prof. Tanka Nath Dhamala from TU, Nepal had presented valuable scientific talks on the burning issues of the disaster management and the problems of resilience. Er. Indra Mani Suwal and Mr. Sanu Shrestha from Kathmandu Metropolitan, deputy Mayors from Bhaktapur and Lalitpur, Mrs. Rajani Joshi and Mrs. Gita Satyal, respectively presented their views, as the representatives of the local government. The scientific session of the workshop was chaired by Prof. Dhamala in which two of the Nepalese researchers Dr. Shree Ram Khadka and Dr. Urmila Pyakurel, and four of the PhD research students of the optimization area, Ram Chandra Dhungana, Phadindra Pd. Bhandari, Hari Nandan Nath and Iswar Mani Adhikari also presented their research works.



Seminar-Workshop on Linear, Integer and Multi-Criteria Optimization

A Seminar-Workshop on Linear, Integer and Multi-Criteria Optimization, Graph Theory and Optimization with Applications in Industry and Society (GraTho) was conducted from March 12 to 23, 2018 at Central Department of Mathematics (CDM), Tribhuvan University (TU) in co-operation with Mindanao State University of Science and Technology, Philippines and University of Kaiserslautern, Germany as a DAAD supported program. At the opening ceremony, the Former HOD of CDM Prof. Kedar Nath Uprety welcomed the distinguished guests and the participants. Likewise the ex-HoD of CDM (TU) Prof. Gajendra Bahadur Thapa, the former Rector (TU) Prof. Ram Man Shrestha, the Executive Director of the International Relations at TU, Prof. Bhupa Prasad Dhamala, and the Dean of IOST Prof. Ram Prasad Khatiwada addressed the program. On the welcoming address, the President of NMS, Prof. Tanka Nath Dhamala, highlighted the objectives of DAAD partnership. The principal resource person, Prof. Sven O. Krumke highlighted the theme and the objectives of the workshop. Prof. Ferdinand Jamil, the cooperation partner from MSU-IIT, Philippines, had also expressed the happiness and shared about the achievement of the program. The chief guest, Prof. Sudha Tripathi, Rector, TU, expressed that CDM has remained most active in maintaining international collaborations and various activities. During the ten days' seminar-workshop, different topics of the Linear, Integer and Multi-criteria Optimization were covered including their theory and applications. A message, wishing for the grand success of the workshop from his Excellency Rt. Honorable Ambassador of Germany, Mr. Ronald Schäfer was read out at the opening program. Mrs. Heike Mock, the Regional Director, DAAD New-Delhi also wished for the success of the program.

Closing ceremony of the seminar-workshop was held on 23rd March, 2018, where Prof. Uprety, Mr. Jimboy Albarachin from MSU-IIT, Philippines, Mrs. Kabita Luitel and Dr. Gyan Bahadur Thapa from TU Nepal, and Dr. Imelda Aniversario, Former Head of the Department, MSU IIT shared their views about the program. Prof. Krumke and Prof. Jamil also shared their valuable comments with the commitment of continuation from their sides. Wrapping up the program, Prof. Dhamala highlighted the importance and applications of the optimization in industry and society and wished for a grand success of the participants in their scientific journey. During the closing program, Prof. Krumke, Prof. Jamil, Prof. Aniversario, Ms. Eva and Ms. Lena were also felicitated. Dr. Shree Ram Khadka facilitated the program with different cultural presentations.



Workshop on Convex Optimization: AvH Research Group Linkage Program

A workshop on 'Convex Optimization based on Optimization Models and Methods for Sustainable Development with Focus on Planning, Transportation and Logistics' was conducted from February 27 to March 5, 2018, at Central Department of Mathematics, Tribhuvan University in co-operation with Department of Mathematics and Computer Science, TU Bergakademie Freiberg, Germany and was partially supported by Alexander von Humboldt Foundation.

At the opening ceremony, Dr. Shree Ram Khadka, highlighted the different academic and research activities conducted so far by the Optimization Group of Nepal. Addressing the opening ceremony, the cooperation partner from Nepal, Prof. Dhamala reminded the long standing cooperation between German Universities with Department of Mathematics at TU. Prof. Ram Man Shrestha remembered his days as a Humboldt Fellow. At the occasion, Prof. Prakash Muni Bajracharya and Prof. Narayan Prasad Pahari also addressed the program expecting the fruitfulness of workshop. The principal resource person, Prof. Dr. Stephan Dempe from Freiberg highlighted the theme and objectives of the workshop. During the workshop, different topics on Convex Optimization were covered including their algorithms, properties, and analytical concepts. The theoretical classes of Prof. Dempe were followed by the effective tutorial classes of Dr. Frank Heyde with different activities. At the closing program, Prof. Upreti, the former head of Central Departments of Mathematics, expressed the vote of thanks expecting that the outcomes of the workshop might be productive one. Wrapping up the program, Prof. Dhamala highlighted the importance and applications of optimization theory in the society and industry. During the program, Prof. Dempe, Mrs. Dempe, and Dr. Heyde were also felicitated with Nepalese culture. Dr. Khadka facilitated the felicitation program.



International Seminar at Rajbiraj, Saptari

The research promotion center, Biratnagar organized a two day International Seminar on Science and its Development through Mathematics at Mahendra Bindeshwari Multiple Campus (T.U.) Rajbiraj, Saptari, Nepal on December 23-24, 2017. NMS EC Member Prof. Dr. Raj Narayan Yadav was the convener, Panch Deo Yadav was seminar secretary, Dr. Sushil Chandra Karna was joint secretary and Swapan Kumar Chakrabarti was co-ordinator of the seminar. For the seminar 48 abstracts were presented –one from U.S.A., one from Bangladesh, eight from India and the rest from Nepal. There were 8 poster presentations.

Interview/Interaction Program with Dr. James Harris Simons

Dr. James H. Simon, a renowned mathematician, completed his doctoral degree from University of California at the tender age of 23. He remained as a research staff at Institute for defense analyses (IDA) as a code breaker to attack problems of cryptography. He taught mathematics at MIT, Harvard University and later joined as a faculty at Stony Brook University and was assigned as the chairman of the Department of Mathematics. He made many research outcomes, grabbed several awards, published many papers, and is mainly famous for the so called *Chern-Simons theory*, which has its ample application in quantum physics and the condensed matter physics. Now, he is a successful hedge fund manager and the founder of *Renaissance Technologies*. Simons also founded *Math for America*, a non-profit organization to improve mathematics education in public schools of the United States by recruiting more highly qualified teachers. The *Simons Foundation* was established

in 1994 by his wife Marilyn and Dr. Simons himself to fund research in mathematics and the basic sciences. Since 2016, the foundation launched the *Flatiron Institute*, a multidisciplinary academic research entity focused on computational sciences. The foundation also has funded two online publications, namely *Quanta Magazine* and *Spectrum*. The *Quanta Magazine* publishes the developments in mathematics, theoretical physics, theoretical computer science and the basic life sciences. The *Simons Foundation* have become large donors to Nepalese healthcare through the *Nick Simons Institute*. In his last recent visit to Kathmandu, Nepal Mathematical Society (NMS) organized an interview/interaction program with Dr. Simons on March 21, 2018. NMS joint-secretary Mr. Parameshwari Kattel facilitated the program alongwith the country director of Nick Simons Institute Nepal, Dr. Anil B. Shrestha. At the beginning, NMS President, Prof. Dr. Tanka N. Dhamala welcomed Dr. Simons and all the participants, and also highlighted the status of Mathematics in Nepal and the activities of NMS. NMS EC members Mr. Khagedra Adhikari and Mr. Jeevan Kafle assisted in the management and the technical aspects of the program.



In the interview and the interaction program, Dr. Simons shared about his childhood, school days, and in particular, why and how he was motivated towards mathematics. He also shared about his research outcomes and their applications in quantum mechanics, condensed matter physics and topological string theory. He also emphasized that we have to make the world understand the importance of mathematics. Prof. Dr. Ram M. Shrestha, Prof. Dr. Hom N. Bhattarai, Prof. Siddhi Koirala, Prof. Dr. Chinta M. Pokhrel, Dr. Shree R. Khadka, Dr. Dinesh Panthi, and Ms. Dhana Kumari Thapa made interactions with Dr. Simons more about him, his scientific contributions, and the potential benefits that the Nepalese mathematical community can take from him and his institutions. The program was inspiring and motivating, especially for the young mathematicians and researchers.

59th Anniversary of the Central Department of Mathematics

The 59th mathematics day has been marked on September 20, 2017 (Asoj 4, 2074) at the Central Department of Mathematics (CDM), Tribhuvan University (TU). Former Vice Chancellor of the TU, Prof. Dr. Hira Bahadur Maharjan was the Chief Guest and the HoD Prof. Dr. Kedar Nath Upreti chaired the program. A veteran mathematician Prof. Dr. Yogratna Sthapit was felicitated during the program. Prof. Dr. Tanka Nath Dhamala, the president of NMS, Prof. Dr. Ram Man Shrestha, the president of Nepal Mathematical Sciences Trust, Prof. Dr. Ram Prasad Khatiwada, Dean of the Institute of Science and Technology of TU, addressed the gathering on the occasion. All the speakers expressed their high level of satisfaction on the activities of the department and wished for its progress. Prof. Dr. Narayan Prasad Pahari, vice president of NMS expressed vote of thanks. Prof. Dr. Kedar Nath Upreti delivered a speech on behalf of the department and adjourned the first part of the program.



In the scientific session, Dr. Durga Jang KC talked about the excitements and challenges of the semester system in TU. Prof. Dr. Kedar Nath Uprety gave a talk about the various aspects of the partial differential equations and their applications.

Symposium for South Asian Women in Mathematics (SSAWM-2017)

SSAWM-2017 was initiated by Women of Nepal in Mathematical Sciences (WoNiMS) in collaboration with the Central Department of Mathematics and the Department of Mathematics and Statistics, Padmakanya Campus took place at CDM, TU, Nepal on October 12-15, 2017. Out of 70 participants, there were 59 women mathematicians from 12 countries including Nepal, Bangladesh, Canada, France, India, Indonesia, Italy, Japan, Korea, Pakistan, Philippines, USA, and other 9 undergraduate students of Tri-Chandra Campus and Padmakanya Campus of TU. The symposium made an effort to create a valuable experience for the participants during the four days. It concentrated on different aspects of various topics each day and made sure even the academic lectures had a component related to women in mathematics. There were two public speeches, 37 research talks, four panel discussions and three breakout sessions. The program activities were disseminated through national newspapers and televisions.



International Day of Women and Girls in Science (IDWGS)

Women of Nepal in Mathematical Sciences (WoNiMS) and the Department of Mathematics and Statistics of Padmakanya Campus jointly organized a program to celebrate IDWGS in Padmakanya Campus of Tribhuvan University (TU). The theme of the program was "Promoting Mathematics through Interaction and Communication". Tara Paudel and Dr. Neelam Subedi delivered their talks on *Encouraging Girls in Learning Mathematics* and *Mathematical Anxiety and Mathematical Performance*, respectively. The program was moderated by Anjana Pokharel and concluded by Prof. Shanti Bajracharya, the Chairperson of WoNiMS.



CONGRATULATIONS !!!

APPOINTMENTS

Prof. Dr. Kanhaiya Jha has been appointed as Associate Dean of School of Science, Kathmandu University, Nepal on August 31, 2017.

Dr. Khageshwar Mandal has been appointed as an Assistant Dean of IOST TU, on Ashoj 30, 2074.

Dhana Kumari Thapa has been appointed as a Board Member of Campus Management Committee of Padmakanya Campus on November 1, 2017.

Dr. Samir Shtestha has been appointed as the coordinator of UNG Computational Mathematics Program at the Department of Natural Science, School of Science, Kathmandu University, Dhulikhel

Prof. Dr. Kedar Nath Uprety has been appointed as the Head of the Central Department of Mathematics, Kirtipur on Chaitra 27, 2074.

Dr. K.B. Manandhar has been appointed as a Chairman of Innovative Academy, Banepa.

Phanindra Pd Bhandari has been appointed as Deputy Head, Department of Science and Humanities, Khwopa Engineering College, Bhaktapur, Nepal.

Promotions and Appointments

1. Professor of Mathematics in TU

Dr. Vinod Parajuli (Internal) and **Dr. Chinta Mani Pokhrel** (Open) have recently been recommended to the post of Professor of Mathematics in Tribhuvan University by TU service commission.

2. **Dr. Shantosh Ghimire** has been recommended to the post of Reader of Mathematics in Tribhuvan University by TU service commission.

3. **Dr. Saraswati Acharya** has been appointed as a post of Assistant Professor, School of Natural Science, Kathmandu University, Dhulikhel.

4. Lecturers of Mathematics in TU

The following people are recently appointed to the post of Lecturer of Mathematics in Tribhuvan University as recommended by TU service commission.

a) Mathematics (Science) Open Competition

- | | |
|-----------------------|---------------------|
| 1. Udaya Kumar Karna | 2. Jeevan Kafle |
| 3. Khagendra Adhikari | 4. Nawaraj Adhikari |
| 5. Kumar Subedi | 6. Chet Nath Tiwari |
| 7. Ritu Basnet Thapa | |

b) Mathematics (Science) Internal Competition

- | | |
|----------------------------|------------------------------|
| 1. Chudamani Bhattarai | 2. Krishna Raj Pandey |
| 3. Him Lal Parajuli | 4. Bishow Raj Adhikari, |
| 5. Laxman Bahadur Kunwar | 6. Krishna Prasad Dhakal |
| 7. Achala Adhikari Neupane | 8. Rabishankar Kumar Singh |
| 9. Chudamani Pokharel | 10. Sachin Wagle |
| 11. Janata Raut | 12. Rabindra Kumar Gupta |
| 13. Balbhadra Bhandari | 14. Resham Prasad Paudel |
| 15. Jitendra Prasad Singh | 16. Raj Kumar Sah |
| 17. Puspanidhi Gautam | 18. Thaneshwor Bhandari |
| 19. Sher Singh Raikhola | 20. Sundra Shrestha |
| 21. Madan Raj Ojha | 22. Binod Prasad |
| 23. Durga Prasad Luitel | 24. Samjhana Koirala (wagle) |
| 25. Shiva Hari Subedi | 26. Giriraj Paneru |

- | | |
|----------------------------|---------------------------|
| 27. Hari Ram Limbu | 32. Ajaya Kumar Chaudhary |
| 29. Bidur Prasad Dahal | 30. Suresh Kumar Sah |
| 31. Birendra Pandit | 32. Kedarnath Chhattkuli |
| 33. Jaydev Nath | 34. Dipendra Baral |
| 35. Gopal Neupane | 36. Bhadraraj Tripathi |
| 37. Shambhu Karki | 38. Sudarshan Sah |
| 39. Nandu Prasad Koiri | 40. Nanda Kishor Kumar |
| 41. Deependra Prasad Yadav | 42. Umesh Prasad Yadav |
| 43. Pawan Kumar Jha | 44. Pat Kumar Sah |
| 45. Pannalal Prasad Mahato | 46. Suresh Raya |
| 47. Yogendra Pandit | 48. Jay Narayan Jha |
| 49. Ratnalal Chaudhary. | |

c) Mathematics (Humanities) Open Competition

- | | |
|---------------------------|-----------------------|
| 1. Molahu Prasad Jaysawal | 2. Jagadish Gyawali |
| 3. Raman Kumar Karna | 4. Santosh Gyawali |
| 5. Yagya Raj Panta | 6. Bekha Ratna Dongal |

d) Mathematics (Humanities) Internal Competition

- | | |
|---------------------------|---------------------------|
| 1. Gangaram D.C. | 2. Nilam Kharel |
| 3. Prem Sharma | 4. Gobinda Adhikari |
| 5. Chabilal Bhusal | 6. Bal Bahadur Tamang |
| 7. Prem Prasad Kafle | 8. Guru Datta Paudel |
| 9. Durga Prasad Khanal | 10. Ram Datta Bhatta |
| 11. Rishiram Gaire | 12. Ananta Uprety |
| 13. Rajesh Chandra Paudel | 14. Birendra Kumar Jha |
| 15. Dilip Kumar Sah | 16. Bipin Kumar Ray |
| 17. Gauri Bhuju | 18. Narendra Prasad Limbu |
| 19. Tuk Bahadur Rana | 20. Bindra Devi Shakya |

Award of PhD Degree

- Jivandhar Jnawali** has completed PhD in Mathematics from Tribhuvan University Topic: *Newton Type Iterative Methods for Solving Nonlinear Equations*
- K.P. Ghimire** has completed PhD in Mathematics Education from Tribhuvan University, Faculty of Education and University of Evora, Portugal on Feb 4, 2018. Topic: *Students Learning Styles and Views: Effect on Hgher Secondary Level Mathematics Achievement*
- Ram Lakhan Sah** has completed PhD degree award from Lalit Narayan Mithila University, Darbhanga, Bihar, India. Topic: *Some Contributions to Fuzzy Functions*
- Suresh Kumar Sahani** has completed PhD degree award from Shri Venkateshwara University, India. Topic: *Study and Analysis of Some Real Life Applications of Derivatives.*



Award of MPhil Degree in Mathematics

Following students have been awarded by MPhil Degree in Mathematics from Kathmandu University in 2017.

- | | |
|----------------------------|----------------------------|
| 1. Mrs. Gauri Bhuju | 2. Mrs. Mina Gumanju |
| 3. Mr. Raj Kumar Pradhan | 4. Mr. Arun Kumar Bhandari |
| 5. Mr. Hari Prasad Gnawali | 6. Mr. Shiva Hari Subedi. |

Mr. Youb Raj Gaire has been awarded by MPhil Degree in Mathematics from Tribhuvan University in 2017.

Fellowships

Dr. Eka Ratna Acharya has received Post Doctoral Fellowship for 10 months in ERASMUS MUNDUS/LEADER for 2017/018. Host University is University of Crete, Greece.

Dr. Urmila Pyakurel has received George Foster Fellowship for Post-doctoral Researchers from Alexander von Humboldt Foundation, Germany.

Ishwar Mani Adhikari and **Hari Nandan Nath** have received UGC PhD Fellowship & Research Grants, Faculty, Science & Technology Cluster.

Following students have been received MPhil fellowships by University Grants Commission, Nepal:

- | | |
|----------------------------|-------------------------|
| 1. Harish Chandra Bhandari | 2. Madan Bahadur Chand |
| 3. Dwarika Prasad Gautam | 4. Anjana Devi Bhandari |
| 5. Uddhab Raj Nyaupane | 6. Hari Thapa |
| 7. Arjan Kumar Sunar | 8. Santosh Gautam |

Activities of NMS Members

Dr. Dinesh Panthi

- Dr. Panthi delivered a talk on the topic *Some Common Fixed Point Theorems for Two Pairs of Maps in Dislocated Metric Space* as an invited speaker in the 7th International Science Conference-2017, organized by Kathmandu University in collaboration with World Science Congress during 10-11 November 2017.

Dr. Raju Ram Thapa

- Delivered an invited talk in 12th conference on *Existence of Stability of Solution of Sitnikov's Restricted Three Body Problem if Primaries are Source of Radiation Triaxial Rigid Bodies*, organized by Murshidabad Mathematical Society, W.B., India from November 4-5, 2017.

Prof. Dr. Tanka Nath Dhamala

- Visited Silkroad Mathematics Center, Beijing and attended the second meeting of steering committee during April 10-21, 2017. Also delivered a talk on, Model Variants and Solution Strategies of Evacuation Planning Problems, organized by Chinese Academy of Sciences.
- Delivered an invited talk on *Dynamic Flow Models and Algorithms for Evacuation Planning*, at International Conference on Computational Modeling and Simulation in Sri-Lanka, May 17-19, and also chaired a session.
- Organized (with Dr. Urmila Pyakurel and Dr. Marc Goerigk) a workshop on UK-Nepal Cooperation in Emergency Management Research, September 1-2, 2017 and gave a talk on *Highlights and Implementation Challenges of Emergency Planning Models for Kathmandu*.
- Organized DAAD partnership workshop in Linear, Integer and Multi-Criterion Optimization and AvH Research Group Linkage Program Workshop in Convex Optimization in March and April, 2018.
- Visited (November 2017-January 2018) TU Bergakademie Freiberg, Germany as AvH research fellow and delivered a talk on *Flow over Time Problems with Variable Attributes*. Also delivered a talk on *Influence of Contraflow Reconfiguration for Dynamic Flow Models on Congested Networks*, Research Seminar, UMD-FMA, Germany, December 12, 2017.

- Delivered a keynote speech *On the Hardness of Network Optimization Algorithms in Emergency Management*, in the International Conference on Advances in Science & Technology, Jaipur, India on May 2-5, 2018.

Dr. Saraswati Acharya

- Facilitated workshop on *Mathematical Modeling and Scientific Computing with Differential Equations*, organized by Damak Multiple Campus, Jhapa, June 17 -21, 2017.
- Participated in a CIMPA Research School: *Summer School on Multiscale Computational Methods and Error Control*, organized by IIT, Kanpur, India, 9-21 July, 2017.
- Presented a paper entitled *Differential Equation and its some Application in Real Life Problems*, in Symposium for South Asian Women in Mathematics (SSAWM-2017) organized by Women of Nepal in Mathematical Sciences (WoNiMS), Kathmandu, 12-15 October, 2017.
- Participated in Australia Awards Fellowship program on the title *Quality and Equity in Science and Mathematics Education in Nepali and Bhutan*, organized by University of Technology, Sydney, 17 November to 2 December, 2017, Australia.
- Participated in *Ubiquitous Learning Training program*, organized by Kathmandu University and Chingu National University Korea, 13-15 January, 2018.

Dr. Urmila Pyakurel

- Gave a talk on *Network Contraflow Models and Algorithms for Emergency Planning* in a workshop on UK-Nepal Cooperation in Emergency Management Research, September 1-2, 2017.
- Presented on *Network Flow Models and Methods for Evacuation Planning Problems* in Symposium for South Asian Women in Mathematics October 12-15, 2017, Kathmandu Nepal.
- Visited (November 2017-October 2019) TU Bergakademie Freiberg, Germany as AvH Post Doctoral Research Fellow. Presented a poster on *Transportation Network Reconfiguration for Evacuation Planning* in Alexander von Humboldt Foundation, Germany, February 19-21

Phanindra Prasad Bhandari

- Presented a paper entitled *An Efficient Solution Approach to Non-Conservation Maximum Flow Evacuation Planning Problem* on the 11th International Conference on Software, Knowledge, Information Management & Applications, 06-08 December, 2017, Colombo.
- Presented a paper entitled *Non-Conserving Flow Model for the Evacuation Planning Problem* in the 7th International Science Conference, 10-11 November, 2017 at Kathmandu University, Nepal.
- Presented a paper entitled *Maximum Flow Evacuation Planning Problem with Non-conservation Flow Constraint* at the Workshop for UK-Nepal Cooperation in Emergency Management Research, September 1-2, 2017, Lalitpur, Nepal.
- Participated in a Workshop-seminar on Linear, Integer and Multicriteria Optimization on March 12-23, 2018, Kathmandu. Also participated in a Workshop on Convex Optimization, Feb 27- March 07, 2018, Kathmandu.
- Visited from 06-08 December, 2017, Colombo, Shree Lanka to present PhD research works.

Puskar Raj Pokhrel

- Presented a paper entitled *Generalized Quasi Two-Phase Bulk Mixture Mass Flow Model: Derivation and Some Essence* in the 7th International Science Conference (ISC-2017), on November 10-11, 2017, at Kathmandu University, Nepal
- Presented a paper entitled *Generalized Quasi Two-Phase Mixture Mass Flow Model : Derivation and Description* in the International Conference on Recent Advances in Mathematical and Physical Sciences (ICRAMPS-2018) on January 27-29, 2018 at Dhaka, Bangladesh.

Parameshwari Kattel

- Presented a paper entitled, *A numerical experiment on dynamic interaction of two-phase debris flow with lateral shear walls*. in the 7th International Science Conference (ISC-2017), Kathmandu University, Nepal, on November 10-11, 2017.
- Presented a paper entitled, *Interaction of two-phase debris flow with lateral solid walls: Dynamic impact pressure and contraction ratio*, in the International Conference on Recent Advances in Mathematical and Physical Sciences (ICRAMPS-2018) Dhaka, Bangladesh on January 27-29, 2018.



Khim Bahadur Khattri

- Presented a paper entitled *A computational strategy and numerical simulation of full-dimensional mixture mass flows down channel impacting a wall*, in the 7th International Science Conference (ISC-2017) in Kathmandu University, Nepal on November 10-11, 2017.
- Presented a paper entitled *Dynamic flow-obstacle-interaction using quasi-two-phase mass flow model*, in the International Conference on Recent Advances in Mathematical and Physical Sciences (ICRAMPS-2018) in Dhaka, Bangladesh on January 27-29, 2018.

Jeevan Kafle

- Presented a paper entitled *Mathematical Modeling and Simulation of a Two-phase and Three-dimensional Submarine Landslide and a Water Body*, in Mathematics-Physics Colloquium jointly organized by STEM (Science, Technology, Engineering, Mathematics) and Physics for Curious Brain at Chitwan on November 11.
- Presented a paper entitled *Impact of Sudden Slope Change of Upstream Slope in the Dynamics of Submarine Landslide and Induced Tsunami*, in the International Conference on Recent Advances in Mathematical and Physical Sciences (ICRAMPS-2018) Jahangirnagar University, Dhaka, Bangladesh, 27-29, January.

Hari Nandan Nath

- Participated in the workshop on Recent Advances in Multi-Objective Optimization (RAMOS 2017), University of Kaiserslautern, Germany, October 19 – 20, 2017.
- Visited University of Kaiserslautern, Germany under DAAD-funded program, "Graph Theory and Optimization with Applications in Industry and Society (GraTho)" (October 4 – December 30, 2017).

- Participated in the Workshop on Convex Optimization, Optimization Models and Methods, AvH Research Linkage Program, Germany & CDM, T.U., Nepal, February 27-March 7, 2018.

Mr. Iswar Mani Adhikari

- Presented a paper in the workshop on Emergency Management Research Workshop on Optimization Models for Disaster Resilience in Nepal, Lancaster University, U.K. & CDM, T. U. September 1-2, 2017.
- Participated in the Seminar-workshop on Advanced Network Flows, Algorithms and Graph Theoretic Views, GraTho, TU, Nepal in collaboration with MSU- IIT, Philippines and DAAD, March 26-April 6, 2017.
- Participated in the Seminar-workshop on Linear, Integer and Multi-Criteria Optimization, , GraTho, TU, Nepal in collaboration with MSU- IIT, Philippines and DAAD, March 12-23, 2018.
- Participated in the Workshop on Convex Optimization, Optimization Models and Methods ,AvH Research Linkage Program, Germany & CDM, February 27-March 7, 2018.

Dr. Ajaya Singh and Mr. Guru Prasad Rijal

- Delivered a talk on *Dynamics on the wandering components of the Fatou Set of three functions* in an International Workshop on Role of Fractional Calculus in Engineering, April 27-28, 2018 at Anand International College of Engineering, Jaipur, India. Also discussed with Professors from Anand International College of Engineering about collaboration on different fields in Mathematics and its applications.

Gauri Bhuju

- Presented a paper entitled *Dynamical study on impact of temperature on malaria disease* on the Symposium for South Asian Women in Mathematics (SSAWM), 12th to 15th October 2017, TU, Kathmandu, Nepal.
- Presented a paper entitled *Mathematical Study of Temperature Variations on The Transmission Dynamics of Malaria Disease* in the 7th National Conference on Science and Technology, organized by NAST, March 29-31, 2016, Kathmandu, Nepal.

Brinda Devi Shakya

- Presented a paper entitled *Girls students in Mathematics at Bachelor's level: Some problems and prospects* in Symposium for South Asian Women in Mathematics organized by WoNiMS on October 12-15 2017.

Dr. Eka Ratna Acharya

- Participated in a conference of Research of Mathematics Education: in University of Athens, Greece (Dec. 1-3, 2017.).

Prof. Dr. Kanhaiya Jha

- Delivered an invited talk in International Conference on Analysis and Its Applications (ICAA 2017) organized by Department of Mathematics, South Asian University at Dayal Singh College, University of Delhi, New Delhi, INDIA from December 9-11, 2017.

Prof. Dr. Narayan Prasad Pahari

- Participated and presented a talk in the seminar organized by The India Mathematics Consortium (TIMC), which was held in the office of Calcutta Math Society, Kolkata on June 30, 2017 . Also participated in the General body meeting of TIMC at Vista Foundation, Bangalore on 22 October, 2017. In the meeting the discussion about a long term possible collaboration of NMS with other south Asian Mathematical Organizations including

The India Mathematics Consortium , Ramanujan Mathematical Society, Indian Mathematical Society and Calcutta Math Society was made.

- Was the Head of the Central Department of Mathematics, Tribhuvan University from Magh 20 to Chaitra 26, 2074.

Dr. Ram Prasad Ghimire

- Delivered an invited lecture on *Differential equations of queueing theory* in an International Conference held in Nashik ,India from January 18-21, 2018. Also, he chaired scientific session.

Dr. Khageshwar Mandal

- Participated in the Training & workshop programme for teachers of Chinese language from overseas 2018 hosted by Beijing International education exchange Center (BIEE) and organized by Beijing International Chinese College (BICC) 2018-01-08 to 2018-01-19 in China

Dhana Thapa

- Delivered a talk on *Mathematics and Nepalese women: A glimpse* in 2017 ICSUWorkshop in Gender-Gap in Science: A Global Approach to the Gender Gap in Mathematical and Natural Sciences, National Taiwan Normal University (NTNU), Taipei, November 7-8, 2017.



Prof. Dr. Prakash Muni Bajracharya and Mr. Keshab Raj Phulara

- Visited the DS Actuarial Education Services, study center of YC Maharashtra Open University, Vile Parle (W), Mumbai in 29 January 2018 and discussed on the topics BSc and MSc university course, syllabus, teaching methodologies for actuarial science, managing professional exam on actuarial science, extra subjects for industry readiness and meet students & support staffs.
- Visited the Finstat Academy Actuarial Science Coaching Classes, Mumbai and discussed on coaching classes for CT series exams and understand value drivers
- Participated in 19th Global Conference of Actuaries, Powai, Mumbai January 30-31 2018. Also had discussions with various personalities regarding teaching, learning, evaluation, preparedness of the actuarial students for industries



Dr. K.B. Manandhar

- Presented a paper entitled *A common fixed point theorem for compatible mappings of type (K) in metric space* on the International Conference on Analysis and Its Applications 2017 in New Delhi, December 9 -11, 2017
- Participated in Global Initiative of Academic Networks Course on Inverse problems in fuzzy approximation space with application in computer vision, organized by Indian Institute of Technology, Dhanabad from October 23 - 27, 2017.

Dr. Umesh Rajopadhyaya

- Presented a paper entitled *A common fixed point theorem using compatible mappings of type (A) in semi-metric space* on the International Conference on Analysis and Its Applications 2017 in New Delhi December 9 -11, 2017
- Participated in Global Initiative of Academic Networks Course on Inverse problems in fuzzy approximation space with application in computer vision, organized by Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines) Dhanabad from October 23 - 27, 2017.



Harish Chandra Bhandari

- Presented a paper entitled *On Fuzzy Differential Equations with Applications* in the 7th International Science Conference organized by Kathmandu University in collaboration with World Science Congress held at Kathmandu University, Nepal during November 10-11, 2017.
- Participated in the Inverses Problems in Fuzzy Approximation Spaces with Applications in Computer Vision organized by Indian Institute of Technology (ISM) held at Dhanbad, India during October 23-27, 2017.

Dr. Ajay Singh, Bishnu Hari Subedi & Khagendra Adhikari

- Participated in an International Conference on Class Group of Number Fields in Related Topics (ICCGNFRT-2017) organized by Harish Chandra Research Institute, Allahabad, India (September 4-7, 2017).

Published Research Articles by NMS Life Members

- Acharya E (2017) Cretan Hieroglyphs Numerals-A Brief Information, Research & Reviews: *Journal of Social Sciences*.
- Acharya E (2017) Evidences of Hierarchy of Brahmi Numeral System, *Journal of the Institute of Engineering*, **14**(1).

- Acharya E (2017) Lichhavi Numeral Systems in Nepal, *Journal of Ramanujan Society of Math. and Math. Sc.*, **6**(2): 69-80.
- Acharya E (2017) Ranjana Numeral System: A Brief Information, *Journal of the Institute of Engineering*, **13**(1).
- Dhamala TN and Adhikari IM (2018) On evacuation planning optimization problems from transit-based perspective, *International Journal of Operation Research*, **15** (1).
- Dhamala TN, Adhikari IM, Nath HN and Pyakurel U (2018) Meaningfulness of OR models and solution strategies for emergency planning, *Springer Natural Hazards*, AG 2018.
- Jnawali J and Bhatta CR (2018) Two Higher Order Iterative Methods for Solving Nonlinear Equations, *Journal of Institute of Engineering*, **14** (1).
- Jnawali J (2017) Some Third Order Methods for Solving Nonlinear Equations, *Journal of Institute of Engineering*, **13**(1).
- Khadka SR and Bhandari P (2017) An Efficient Solution Approach to Non-Conservation Maximum Flow Evacuation Planning Problem. *Proceedings on SKIMA, Colombo*, 333-335.
- Khadka SR and Bhandari P (2017) Dynamic Network Contraflow Evacuation Planning Problem with Continuous Time Approach. *International Journal of Operations Research*, **14** (1), 27-34.
- Pokhrel PR, Khattri KB, Tuladhar BM, Pudasaini SP (2018) A generalized quasi two-phase bulk mixture model for mass flow. *International Journal of Non-Linear Mechanics*, **99**, 229-239.
- Pyakurel U and Dhamala TN (2017) Continuous dynamic contraflow approach for evacuation planning, *Annals of Operation Research*, **253**.
- Pyakurel U and Dhamala TN (2017) Evacuation planning by earliest arrival contraflow, *Journal of Industrial and Management Optimization*, **13**.
- Pyakurel U, Dhamala TN and Dempe S (2017) Efficient continuous contraflow algorithms for evacuation planning problems, *Annals of Operations Research*, **254**
- Pyakurel U (2017) Efficient algorithms for contraflow reconfiguration in evacuation planning, *Neural, Parallel and Scientific Computations*, **25**.
- Pyakurel U, Nath HN and Dhamala TN (2018) Efficient contraflow algorithms for quickest evacuation planning, *Science China Mathematics*.
- Shukla HS and Mandal K (2017) The β -change of special Finsler spaces, *International journal of mathematical combinatorics*, **1**(1).
- Shukla HS and Mandal K (2017) The β -change associated with sets of n Fundamental forms of tangent Riemannian hypersurfaces, *Janabha*, **47** (1), 207-216.

INTERVIEW

"Mathematics is not only about numbers, equations, and computations as most laymen think; it is more about understanding the world in systematic way."

Prof. Dr. Krishna Kumar Shrestha



Prof. Dr. Krishna Kumar Shrestha, a well-known mathematician of western region of Nepal. He has received various awards and recognitions for his contributions in Mathematics including Mahendra Vidya Bhushan Ka, Long Term Service Award by TU and Life Time Achievement Award by Council for Mathematics Education, Kaski. He remained the Head of Department (HoD) in several tenures in Prithvi Narayan (PN) Campus, Pokhara. He also contributed for NMS being an executive member (2060-2063 BS) and an advisor (2072-2075 BS). He was the key person to launch the Master's degree program of Mathematics in PN Campus, Pokhara and promoted teaching/learning and research activities. Currently, he is the Chief Editor of *Yeti Journal of Mathematics*, published by PN Campus Pokhara, and also the president of Pokhara Chapter of Nepal Mathematical Society.

What follows is an interview with Prof. Shrestha by Prof. Narayan Prasad Pahari about him and the current situation of Mathematics in Nepal.

➤ **Prof. Shrestha, could you please tell us a little bit about your family background?**

I was born on Magh 2, 2006 BS in Baglung Bajar, Ward no. 2, Baglung district. My father Dham Bahadur Shrestha, was a businessman and my mother Dil Kumari Shrestha, was a house-wife. Nowadays, I live in Pokhara with my wife, one son and one daughter. By profession, my son is an ENT surgeon and daughter is in dentistry.

➤ **Could you please tell us also about your school and university education?**

I started my school education (grade 1-9) from Bidhya Mandir High School, Baglung Bajar and passed SLC from Padma Public Multipurpose High School, Tansen, Palpa in 2021 BS at the age of 15 years. I did my Intermediate in Science from Amrit Campus in 2023 BS and Bachelor's of Science from Tri-Chandra Campus in 2026 BS. After then, I started my teaching career as a high school Mathematics teacher for 6 years (2027-2033 BS). In this duration, I made self-study and passed my Master's degree in Mathematics from Tribhuvan University as a private student in the first division in 2031 BS. I have completed my PhD degree from Banaras Hindu University (BHU), India in 2055 BS in the topic- Hankel Transform of Beurling Ultra Distributions Besides Certain Pseudo Differential Operators.

➤ **Prof. Shrestha, may we know a bit more about your teaching career?**

I started my teaching career from Binamare High School in 2027 for one year and then joined in Bidhya Mandir High School as a mathematics teacher for the duration 2028-2033 BS. I started my university teaching career from PN Campus, Pokhara in 2033 BS as an assistant lecturer, and after 3 years, in 2036 BS, I became a permanent lecturer. Nineteen years later, in 2055 BS, I became a reader. After 6 years, in 2061 BS, I became a professor. I got compulsory retirement from Tribhuvan University in 2069 BS.

➤ **Will you like to share with us about your experiences as a private student of mathematics in Master's Level?**

Sure! I had appeared as a private MSc mathematics student in 2028 BS. Though it was very difficult to be a private student to gain conceptual, theoretical and abstract knowledge of Mathematics at that time, but I continuously visited the Central Library, and also consulted with professors of the Central Department of Mathematics. I secured the first division, and some credit goes to the professors at that time of the CDM, TU and also to some of my colleagues. So far I can recall, there were only a few text books, reference books and research journals of Mathematics, available in the Central Library.

➤ **Prof. Shrestha, it is a reality that the number of students enrolled in Mathematics, even at Bachelor's level is deteriorating day by day. How is it possible to recover the condition?**

The sharp decline in the admission in Mathematics in the university is the major issue of the current situation. Research centered job opportunity is not easily accessible for passed out students in the existing market. Most of them are engaged in the teaching sector, and especially in high schools and plus 2 colleges, and teaching does not fall in the priority for the majority of the graduates of Mathematics of these years. Mathematics should be more simplified and more popularized. New employment sectors besides teaching should be explored.

➤ **Even after your retirement, you are still actively involved in different activities of Mathematics now. What changes should be brought in the curriculum of Mathematics in Universities? Are you satisfied with the existing evaluation system?**

Mathematics should be applicable to real life situations, and in every discipline of social and natural sciences. Current curriculum of Bachelor's and Master's level of universities, and especially of TU is highly ambitious in the contents. It emphasizes more on the theoretical part, and less on the application aspects. The curriculum should be reviewed and updated regularly to make Mathematics more students friendly including the recent trends and findings. The evaluation process is based on mugging up rather than conceptual learning and application. It should properly evaluate how much of the concepts in Mathematics the students have, and how well they can apply the concepts

➤ **Then, how can Mathematics be made more popular among youngsters?**

Practical, applied and real-world problems of Mathematics should be incorporated at schools and at higher levels, and extra-curricular activities should also be conducted. Mathematics is not only about numbers, equations, and computations as most laymen think; it is more about understanding the world in systematic way. The only way to understanding mathematics is to do mathematics and conceptualize it.

➤ **Have you sacrificed some other interests in your life while choosing Mathematics as your career?**

Although my parents were totally engaged in business, I am involved in academic sector for the promotion and development of Mathematics throughout my life. Teaching profession is more ethical, moral, decent, and honorable than others. I dedicated myself in Mathematics for my satisfaction and did not take much in monetary value. I am fully satisfied with my choice of teaching profession, and especially in Mathematics.

➤ **Which mathematics books have made big impression on you?**

Though I have consulted many text books through my teaching and learning times, among them, the more impressive books for me to enrich the subject matter, and I enjoyed thoroughly are: Introduction to Topology and Modern Analysis by G.F. Simmons and Mathematical Analysis by T.M. Apostol

➤ **Mathematics may be a challenging subject for some learners. How did you use to make your classes interesting for your students?**

Mathematics teaching is considered as a challenging subject. I am still involved in teaching some mathematics classes of Engineering and I get very good response from the students. I use to motivate the students with different teaching approaches to ensure that learning Mathematics is really interesting. Each day, one can learn something new from students, colleagues, books and even from his/her own mistakes.

➤ **Finally, what advice will you like to give the new teachers of Mathematics?**

New Mathematics teachers should be sincere, dedicated and hard working. They should take teaching career as a service oriented job with full of mental satisfaction rather than expecting a high salary. They should work extra hard to enhance skill, knowledge and expertise, and gain experiences.

Short Biography



Prof. Yadav Prasad Koirala

About Family

Prof. Yadav Prasad Koirala was born on September 15, 1948 (Bhadra 29, 2005 BS) at Badigan Tole Tansen Palpa, Nepal. His father Mr. Tika Ram Koirala was a farmer and his mother Topala Kumari Koirala was a house-wife. He was married to Anita Koirala. They have one son and two daughters. His son is a medical doctor currently working in the USA. Presently Prof. Koirala is living at Battisputali, Ram Mandir Marg, Kathmandu-9.

Education

Prof. Koirala started his school education from Janata Vidyalyaya High School, Tansen, Palpa, and passed School Leaving Certificate (SLC) examination in 1964 AD. He did his Intermediate of Science (ISC) in 1967 and Bachelor's of Science (BSc) in 1969 from Tri-Chandra Campus, Tribhuvan University.

He completed his Master's degree in Mathematics from the Central Department of Mathematics (CDM), Tribhuvan University (TU) with the first division in 1971. In his batch, there were 30 students and only a few teachers in the department.

Academic Service and Contributions

Prof. Koirala started his teaching career from Prithivi Narayan Campus, Pokhara as a lecturer and served only for about six months (February 1972-July 1972). Then, he joined the Government's service in Ministry of Education as a section officer for about one and half year (1972-1974). After then, he was appointed as a permanent lecturer in 1974 in CDM, TU. Sixteen years later, in 1990, he was promoted to a reader, and then to a professor in 2003. After 37 years of long service period in TU, he got retirement in 2011.

He was actively involved in teaching postgraduate students at CDM TU with main areas of interest: Differential Geometry, Mathematical

Analysis and Topology. He was very popular among his students and they remember him as an ideal teacher with simple life style, and academically honest. He also remained the Head of CDM, TU for the duration 2005-2009. Prof. Koirala has published some research papers and general articles. He has also authored the following three books:

- i) Algebra, Geometry and Calculus,
- ii) Advanced Calculus, and
- iii) Applications of Mathematics.

Awards, Involvement and Participation

Prof. Koirala has received several awards, felicitations, and recognitions for his contributions in Mathematics. They include, National Education Award (by Ministry of Education, in 1992), and Long Term Service Medal (by TU, in 1999). He was also felicitated by CDM, TU, in 2011, and by NMS in 2012 for his valuable contribution for the promotion and development of mathematics in Nepal.

Prof. Koirala was also an editorial board member and an advisory board member of the journal entitled *The Nepali Mathematical Sciences Report*, a publication of CDM TU. He also contributed actively to NMS as a Secretary (2060-2063), a vice-President (2063-2066) and an advisor (2066-2069).

Prof. Koirala also participated in International Conference on Complex Manifold, Organized by ICTP, Italy in 1980.

Countries Visited

India, Italy, Malaysia, Thailand, and USA

His Vision on Mathematics Teaching

Teaching is very important to Prof. Koirala during his service period. According to him, the most challenging part of Mathematics curriculum is to find relevance and applications to boost up students' understanding in Mathematics and their professional careers. He thinks that Mathematics is an inseparable part of human civilization; so, mathematicians have very important roles to play in the society. According to him, the curriculum should be reviewed and updated regularly with the recent trends and new research outcomes to make Mathematics more beneficial and students friendly.

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