



Newsletter

NEPAL MATHEMATICAL SOCIETY

Established in 2035 B.S. (1979)

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Editorial

Nepal Mathematical Society (NMS) is a professional organization of Nepali Mathematicians, which conducts different activities such as seminars, monthly talk programs, national and international conferences and symposiums. Interactions among Nepalese mathematicians in emerging issues of teaching, training and research are also carried out.

The present executive committee has been active in organizing different programs. NMS realizes the importance of mathematics for modern society. We are pleased to bring out the eleventh issue of the NMS newsletter on the auspicious occasion of its 37th anniversary. The newsletter highlights the activities of the society and its members during 2071 Jestha to 2072 Ashad (June 2014 to May 2015).

In each issue of newsletter we include an interview and a brief biography of eminent mathematicians. Interview of Prof. Omkar Nath Pant and a brief biography of Prof. Dr. Santosh Man Maskey are included in this issue. We strongly believe that Nepal Mathematical Society plays a vital role to ensure fast progress of mathematical activities and to give positive message about popularization of mathematics among mathematical and non-mathematical community. Therefore, the executive committee has to be active, sincere and convinced on how fast and in what capacity NMS can transfer the knowledge to build the mathematical base quite strong.

We are thankful 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. We hope that similar support and cooperation would continue in the coming days.

Farewell Message

Nepal Mathematical Society is celebrating its 37 years of establishment. This year we are forming the new Executive Committee. I served as the President of the Society for two terms from 2009 and in few days I am handing over the executive post to a new President. I hope that the new Executive Committee will be able to take NMS to new heights.

During my tenure, NMS has become the Associate Member of International Mathematical Union (IMU) from 2010 and Associate Member of South-East Asian Mathematical Society (SEAMS) from 2013. Biannual National Conference has been held regularly at major cities outside Kathmandu.

On behalf of the Executive members of 2009–2012 and Executive members of 2012–2015, I thank all the mathematicians of Nepal and abroad and especially the members of NMS for their continued support during the six years of my Presidency from June 2009 to July 2015.

Prof. Dr. Bhadra Man Tuladhar
President, NMS



Nepali Mathematicians at ICM 2014, Seoul, Korea

Editorial Board

Chief Editor : Prof. Dr. Bhadra Man Tuladhar
Editors : Prof. Dr. Kedar Nath Uprety
Dr. Dinesh Panthi
Dr. Dil B Gurung
Ms Urmila Pyakurel
Dr. Santosh Ghimire
Mr. Nabaraj Adhikary

A GLIMPSE OF THE ACTIVITIES OF NEPAL MATHEMATICAL SOCIETY (NMS) JUNE 2014 – JUNE 2015

NMS 36th Anniversary

OPENING SESSION:

Date : May 17, 2014 (3 Baisakh 2071)

Venue : School of Arts, Kathmandu University
(KU), Hattiban, Lalitpur

Chief Guest:

Prof. Dr. Hira Bahadur Maharjan, Vice-Chancellor, TU

Chair Person:

Prof. Dr. Bhadra Man Tuladhar, President, NMS

Felicitation:

The following senior mathematicians were felicitated on the occasion of 36th anniversary of NMS

1. Prof. Dr. Pushpa Raj Adhikary
2. Prof. Mukunda Bahadur Shrestha
3. Assistant Prof. Rishikesh Nepal



Prof. Mukunda Bahadur Shrestha addressing the session

Academic Session:

Prof. Dr. Tank Nath Dhamala made a presentation on the topic "Efficient Evacuation through Optimal Network".



Prof. Dr. Tank Nath Dhamala making a presentation

General Body Meeting:

The general body adopted the following reports:

1. Annual Report presented by NMS Secretary Dr. Kedar Uprety.
2. Financial Report presented by NMS Treasurer Ms. Urmila Pyakurel.



Mathematicians attending the general body meeting

CONGRATULATIONS

Appointments

Mr. Bal Dev Adhikari, Appointed as Assistant Campus Chief (academic) Tribhuvan University Institute of Engineering Thapathali Campus, Thapathali. Date of Appointment: April 20, 2015 (2072/01/07).

Prof. Dr. Tanka Nath Dhamala, Nominated as a DAAD Research Ambassador in recognition of

the outstanding contribution towards furthering the academic and scientific cooperation between Nepal and Germany. He was also elected as the Vice-President of Nepal-German Academic Association (NEGAAS).

Mr. Khim B. Khattri, Appointed to the post of Lecturer in Mathematics at Department of Natural Sciences, School of Science, KU. (September 11, 2014).

Mr. Kosal Dahal, Appointed to the post of Assistant Professor of Mathematics at Minot State University, North Dakota, USA.

Award of Ph. D. Degree

1. **Dr. Ekaratna Acharya**, Ph. D. degree from Nepal Sanskrit University. The title of his research work is *Naya Raj Pantaka Ganitiya Kirtiharuko Adhayan*.



2. **Dr. Samir Shrestha**, Ph. D. degree from Department of Mathematics (Techno-mathematics Group), University of Kaiserslautern, Germany. The title of his research work is *Modeling and Simulation of Moving Rigid Body in a Rarefied Gas*. (March 2, 2015)



3. **Mr. Kosal Dahal**, Ph. D. degree from University of North Texas, USA. The title of his research work is *Construction of Skeleta of Affine Algebraic Hypersurfaces*.



Award of M. Phil. Degree from KU:

1. **Mr. Prem Gurung**, on the topic *Finite Element Method Approach for Vertical Atmospheric*

Pollutant Distribution with Dry Deposition and Gravitational Settling Velocity.

2. **Mr. Bharat Raj Wagle**, on the topic *Transient Analysis of m/m/3 Queuing Model with Finite Capacity*.
3. **Mr. Om Narayan Shrestha**, on the topic *Performance Analysis of M/M/R Machine Repair Model with Additional Repairmen and Standby Switching Failure*.
4. **Mr. Ramesh Chandra Timisina**, on the topic *Chemostat model analysis for growth of microorganism in limiting substrate*.
5. **Mr. Arjun Adhikari**, on the topic *SIR model on transmission dynamics of infectious diseases*.

FELLOWSHIPS/MEDALS/AWARDS

Prof. Dr. Kanhaiya Jha, selected for Prestigious Erasmus Mundus Leaders Fellowship for 2015 of European Commission (EU) under staff mobility scheme from Kathmandu University to visit University of Oradea, Romania and continue his research. He is visiting Romania from September 30 to November 10, 2015. He has also been invited by Institute of Fuzzy Modeling and Applications, University of Ostrava, Czech Republic from November 10 – 21, 2015.

Dr. Dinesh Panthi, awarded the medal Nepal Vidyabhushan 'Ka' from Rt. Hon'ble President of Nepal Dr. Ramvaran Yadav on 8th September 2014 (Bhadra 23, 2071 B.S.) on the auspicious occasion of National Education Day and International Literacy Day.

Mr. Puskar R. Pokhrel, research stay at the University of Kaiserslautern, Germany, under the DAAD program: South-Network Modeling and Analysis in Industry and Finance. Attended the lectures, tutorials and passed the final exam on "Biomathematics" and Reaction-diffusion equations with applications to Biology and

Medicine" from April 20, 2014 to July 20, 2014.

Mr. Bishnu Hari Subedi, received Ph.D faculty fellowship from UGC, Nepal for the year 2072.

CONFERENCES & WORKSHOPS

Nepali Mathematicians at Seoul ICM 2014:

The following nine mathematicians from Nepal participated in **SEOUL ICM 2014** organized by International Congress of Mathematicians (**ICM 2014**) at COEX, Seoul, South Korea from **August 13-21, 2014**. The organizers of ICM 2014 have generously supported financially to all the nine participants. The participants are:

1. Prof. Dr. Bhadra Man Tuladhar (KU)
2. Prof. Dr. Jyoti Devkota (KU)
3. Prof. Dr. Kanhaiya Jha (KU)
4. Dr. Ram Prasad Ghimire (KU)
5. Ms. Saraswati Acharya (KU)
6. Mr. Gokul K.C. (KU)
7. Prof. Dr. Chat Raj Bhatta (TU)
8. Prof. Dr. Ajay Singh (TU)
9. Mr. Raj Narayan Yadav (TU)



NMS President Prof. Tuladhar and Prof. Jyoti Upadhaya with AMS Math Reviews Executive Editor Dr. Graeme Fairweather



Nepali Mathematicians at ICM 2014, Seoul, Korea

SEMINAR CUM WORKSHOP IN MATHEMATICAL SCIENCES

A two-day Seminar cum Workshop in Mathematical Sciences was held on June 13 - 14, 2014 at the Hotel Hill Side, Kirtipur. The seminar was organized by the Central Department of Mathematics, Tribhuvan University and supported by Second Higher Education Project.



NMS President Prof. Tuladhar addressing at the workshop

The seminar was attended by mathematicians from different campus of TU, KU and Nepal Sanskrit University.



Participants of the workshop

MATH DAY

The 56th MATH Day was celebrated on September 19, 2014 at the Central Department of Mathematics, TU. Prof. Dhup Ratna Bajracharya, was felicitated by the Department for his valuable contribution in Mathematics Education.



Prof. Dhup Ratna Bajracharya after felicitation

The celebration was followed by two-days Seminar on Mathematics with Applications on September



Dr. Dil Bahadur Gurung making a presentation

19-20, 2014. Papers were presented by several mathematicians working on that field.

CCIMPA SCHOOL ON "ASPECTS OF DYNAMICAL SYSTEMS"

CIMPA School on "Aspects of Dynamical Systems" was held at Tribhuvan University, Kirtipur from November 3-16, 2014. All together 65 students and professor from Nepali and neighbouring countries attended the school. The composition of the participants are: Nepal-33, Bangladesh-1, Bhutan-3, India-9, Indonesia- 1, Iran- 1, Pakistan- 9, Philippines- 2 and Thailand- 3. There were 18 female participants. The schools duration was 2 weeks. The first week was essentially devoted to basic/primary level courses on dynamical and ergodic theory. The second week was devoted to more high level courses.

The resource persons for the school are: Ananda Prakash Singh, CUR, Rajasthan, India; Walter Bergweiler, Kiel, Germany; S.G. Dani, TIFRI, Bombay, India; Riddhi Shah, JNU, India; Stefano Luzzatto, ICTP, Italy; Jon Aaronson, Tel Aviv Univ., Israel and Renaud Leplaideur, Univ. Brest, France, Ajay Singh, CDM, TU, Nepal and Kedar Nath Uprety, CDM, TU, Nepal.

INTERNATIONAL SYMPOSIUM AND FAIR ON MATHEMATICS EDUCATION-2015

Kathmandu University, School of Education (KUSOED) with the collaboration of Center for Activity Based Instruction (ABI), Nepal organized a two day "International Symposium and Fair on Mathematics Education-2015" on the theme "Transforming Mathematics Education Through Activity Based Instruction." on February 6-7, 2015. The university grants commission provided financial support recognizing it as an International Fair and Symposium. The major goal of the fair was to share exemplary practices of different stakeholders (i.e. students, teachers, teacher trainers, educators and researchers) by envisioning the uses of activity-

based instruction to transform the teaching and learning processes of mathematics in Nepal. The symposium was led by Emeritus Prof. Dr. Paul Ernest, one of the major contributors on social constructivist philosophy of mathematics and Emeritus Prof. Dr. Daniel Clark Orey, one of the major contributors in ethno modeling. More than 7000 students observed mathematics education fair from Kathmandu Valley and outside. Thirty five stalls were kept by schools, training organizations, books publishing houses, etc. More than 80 think-tanks (influential mathematics teachers, teacher trainers, book writers, universities faculties, etc.) Participated in the international symposium. The fair was conducted in the premises of Kathmandu University, School of Education, Hattiban and the symposium was conducted in Little Angle's College, Hattiban.

"Prof. Dr. Ram Kantha Makaju Shrestha (Vice Chancellor, KU), Prof. Dr. Bhola Thapa (Registrar, KU), Prof. Dr. Parashar Prasad Koirala (Chairman, University Grants Commission), Prof. Dr. Jibaraj Pokhrel (Vice Chancellor, NAST), Dr. Mahesh Banskota (Dean, School of Education/Arts), Dr. Bal Chandra Luitel (Associate Dean, KUSOED) delivered speech on the importance of the fair and symposium in the opening ceremony." Mr. Binod Prasad Pant was the coordinator of the program.

FIRST INTERNATIONAL WORKSHOP AND CONFERENCE ON COMMUTATIVE ALGEBRA

The First International Workshop and Conference on Commutative Algebra was organized by Central Department of Mathematics, Tribhuvan University from April 20–26, 2015. The Conference was led by two emeriti faculty from the University of Nebraska-Lincoln, Roger and Sylvia Weigand. There were 60 participants and the Resource persons were from Jan Trlifaj from Charles University, Prague, Czech Republic, Sudhir Ghorpade from IIT-Mumbai; Manoj Kumini from CMI Chennai Mathematics Institute; Jugal Verma from IIT, India, Alberto Facchini from

University of Padova, Italy, Korea, Ayman Badawi from American University of Sharjah, United Arab Emirates and Steve D. Cutkosky from University of Missouri, Columbia; Brian Harbourne from University of Nebraska, Lincoln, USA. Mr. Bishnu Hari Subedi, Ph.D. Scholar from Nepal delivered a lecture.



*Prof. Roger Weigand addressing the
Inauguration Session of Workshop*

Though the conference was planned till April 26, it was abruptly stopped at 11.56 am on April 25 near the end of a presentation of the sixth day, when Kathmandu was stuck with a massive earthquake of 7.8 magnitudes. Thanks to the organizers and the understanding of the participants and guests from abroad, everyone were safe.



*Resource Persons of the conference in Nagarkot
on April 23, 2015 at the breakfast hosted by
NMS President Prof. Tuladhar.*

ACTIVITIES OF NMS MEMBERS

Prof. Dr. Bhadra Man Tuladhar, President NMS

- Participated in the 17th General Assembly of the International Mathematical Union (GA-IMU) held at Gyeongju, Korea from August 10- 11, 2014.



NMS President Prof. Tuladhar representing Nepal at GA-IMU

- The General Assembly elected the new IMU Executives for 2015 -2018. The elected President is Prof. Shigefumi Mori from Japan and, Prof. Helge Holden from Norway as Secretary. The General Assembly also decided to hold the 2018 International Congress of Mathematicians (ICM-2018) in Rio de Janeiro, Brazil, in August 2018.



NMS President Prof. Tuladhar with IMU President Prof. Shigefumi Mori (Japan)



NMS President Prof. Tuladhar with IMU Secretary Prof. Helge Holden (Norway)

- Participated in the International Congress of Mathematicians (ICM-2014) at COEX, Seoul, South Korea from August 13–21, 2014 and presented a paper entitled "Data archive and arithmetic calculation in Nepal in 18th century". Chaired the Session SC19-01 of History of Mathematics.



NMS President Prof. Tuladhar presenting a paper



NMS President Prof. Tuladhar chairing the ICM-2014 contributory talks session.

- Participated in the Council Meeting of South-East Asian Mathematical Society (SEAMS) on August 16, 2014 as its Associate Member.



Prof. Tuladhar at SEAMS Council Meeting

- Participated in the 7th International Conference on Science & Mathematics Education in Developing Countries held at Mandalay University, Myanmar from November 7 to 9, 2014. Presented the invited country paper on Development of Mathematics Education in Nepal. Visited the Mathematics Department of Mandalay University.



NMS President Prof. Tuladhar with the organizers of the Mandalay Conference



Prof. Tuladhar at the Math Dept., Mandalay Univ

Prof. Dr. Kedar Nath Uprety

- A lecture course was given on Dynamical System for continuous case on CIMPA School arranged by the Central Department of Mathematics School November 3- 14, 2014. A lecture given on "An excursion of Mathematical Modeling with Dynamical System", on International Seminar on Mathematics arranged by Post-Graduate Campus, Departments of Mathematics of MMAM Campus and PG Campus, Biratnagar on December 27-28, 2014 as an invited speaker.

Prof. Dr. Kanhaiya Jha

- Presented a paper entitled "On some compatible type mappings in metric spaces" in the 22nd International conference on Finite or Infinite Dimensional Complex Analysis organized by Department of Mathematics, **Dongguk University**, GYEONGJU, Republic of South Korea from **August 8 – 11, 2014**.
- Appointed and participated as an **Ambassador** from South and West Asia (including Indian subcontinent) of the International Congress of Mathematicians (ICM 2014) and its invitation program: "NANUM 2014" which was organized at COEX, Seoul, South Korea from August 13 – 21, 2014. Participated as a country representative in the MENAO Symposium organized during ICM 2014 on August 12, 2014. He raised the issues related to the existing role & contribution of Nepal Government & concerned donor sectors working for education and for the development of mathematics including the payment of Nepal Mathematical Society to other academic society as associate members in dollars. He participated and presented a paper entitled "Generalized common fixed point result in fuzzy metric space in SEOUL ICM 2014.
- Visited the College of Natural Sciences at EWha Women's University, Korea from August 22 – 24, 2014 and gave a talk on his research area.

- Visited the Chinese University of Hong Kong (CUHK) under the Academic Visitors Scheme from August 24 – 26, 2014. He interacted with other faculties about the dual degree undergraduate mathematical program being the leading country for mathematical developments.
- Attended an International Workshop on Image Processing organized by Department of Mathematics, Hong Kong Baptist University (HKBU), Hong Kong on August 25, 2014.
- Presented a paper in an International Conference on History and Developments of Mathematics (ICHDM 2014) organized by Indian Society of History of Mathematicians at Savitribai Phule University, PUNE, India from November 27 – 30, 2014. As an academic purpose, he visited the Indian Institute of Science Education and Research (IISCR), Bhaskaracharya Pratisthan and Maharashtra Institute of Technology (MIT), Pune and interacted with the concerned faculties for their key role to develop mathematics in India.
- Participated and gave an invited talk on “Some generalized metric spaces with applications” at an International Seminar on Mathematics (ISM 2014) organized by Department of mathematics, Mahendra Morang Adarsha Multiple Campus, Biratnagar from December 27 – 28, 2014.

Prof. Dr. Tanka Nath Dhamala

- Completed his research entitled “Evacuation planning network optimization problems: mathematical models, efficient methods and implementations” supported by Alexander von Humboldt Foundation (AvH) in Germany. His research was in collaboration with host Prof. Dr. Horst W. Hamacher at University of Kaiserslautern, Germany. In the mean time, the AvH research fellow Prof. Dhamala published a number of research papers in the journal of repute and presented the results in conferences. He is also serving as a reviewer of reputed international journals.

Dr. Dil B. Gurung

- Delivered invited talk at various international conferences organized at various Indian Universities and Institutes. His talk was mainly focus on applicable mathematics on various real life problems, For examples, Mathematics on physiological heat transfer problem at Vidhyasagar university, West Bengal held from March 18–19, 2015; Some communicable disease models at Sardar Vallabhai National Institute, Surat from October 3 – 6, 2014; Mathematics in Biological problems at Sagar institute of Research and Technology, Bhopal from February 19 – 22, 2015.
- Made research visit at Technical University Kaiserslautern, Germany from January 15 – February 12, 2015 under DAAD support. His visit was to enhance research capabilities in Applied Mathematics at Kathmandu University, and discussed research activities in various aspects. The visit was also to discuss for the improvement of Applied math curriculum in M.Phil. Program at Kathmandu University. During one year period Dr. Gurung published four research papers in peer reviewed International Journal with his Ph.D. Scholars. The published paper is related to Mathematical modeling for temperature distribution in human eye and comparative Physiological heat transfer models in male and female.

Dr. Ram Prasad Ghimire

- Participated in International Congress of Mathematicians Seoul, South Korea in August 13-21, 2014 and delivered a talk on “Transient Analysis of M/M/n/n queueing model” under NANUM grants. Academic visit to Technical University of Kaiserslautern, Germany from 21 September -23 October -2014 under DAAD Scholarship.

Dr. Dinesh Panthi

- Delivered a talk on the topic “Mathematical Relationship in Buddhist Yoga” on 16th World

Sanskrit Conference -2015 organized by Sanskrit Studies Centre, Silpakorn University, Bangkok in collaboration with International Association of Sanskrit Studies during 28 June - 02 July, 2015 held at Bangkok, Kingdom of Thailand. He is also invited to deliver a talk on the topic "Some fixed point results in dislocated quasi metric space" on 16th International Pure Mathematics Conference 2015 organized by Pakistan Mathematical Society in collaboration with Preston University during August 23 - 25, 2015 at Islamabad, Pakistan.

Mr. Kaji Prasad Ghimire

- Presented a talk on the paper entitled "Relationship between students' view towards mathematics and achievement in mathematics" at the 9th International Technology, Education and Development Conference held in Madrid, Spain during 2-4 March 2015.

Ms. Urmila Pykurel

- Visited University of Kaiserslautern, Germany for six months under the invitation of Prof. Dr. Horst W. Hamacher for her research. She published research papers in the journals of repute and presented the results in conferences.

Mr. Jeevandhar Jnawali

- Presented a paper on the topic A variant of Newton's method for solving nonlinear equation with forth-order convergence in Seminar on Mathematics and Its Applications held at Central Department of, Mathematics Tribhuvan University on September 19-20, 2014. He also presented a paper on the topic Combination of modified Newton's and Secant method for solving nonlinear equations with order of convergence $\frac{3+\sqrt{17}}{2}$ in International seminar on mathematics 2014 held at Biratnagar, Nepal during 27-28 December 2014.

Mr. Bishnu Hari Subedi

- He presented a paper on the topic "Geometric Product and Applications" on International Conference on Geometry and Its Applications organized by Jadavpur University Kolkata, India and Tenser Society of India from October 16-18, 2014. He Attended SEAMS School on Module Theory and Its Applications: November 10-18, in Institut Teknologi Bandung, Bandung, Indonesia.

Mr. Pavan Kumar Jha

- Presented a paper entitled "On Methods of Solving Quadratic Equations In Different Era" in an International Conference on History and Developments of Mathematics (ICHDM 2014) organized by Indian Society of History of Mathematicians at Savitribai Phule University, PUNE, India, during November 27-30, 2014. He is elected as president of Ascol Campus Unit Tribhuvan University Teachers Association, Lainchaur, Kathmandu.

Ms. Saraswati Acharya

- Participated and presented Poster presentation on the topics of "Mathematical modeling of sex related differences in the Sensitivity of the Sweating heat loss responses to change in body temperature", at Seoul ICM 2014 and International Congress of Women Mathematician (ICWM), August 12-21, 2014,



Seoul, Korea on the topics of mathematical modeling in thermoregulatory responses on sweating during menstrual cycle. She also participated in the second International Conference of Interdisciplinary Research in Engineering, Management, Pharmacy and Science (ICIREMPS2K15) held during February 19-22, 2015, Bhopal, India. Participated in CIMPA School on Partial Differential Equation: Analysis, Numerics and Applications to Floods and Tsunamis, organized by the International Center for Pure and Applied Mathematics (CIMPA) and the Institute of Mathematics, 23 June 2014- 04 July 2014, University of the Philippines-Diliman.

Dr. Samir Shrestha

- Participated and presented research paper in Bandung International Workshop from May 25 - June 5, 2015 on the title 'Biomathematics and Mathematics of Finance 2015, Institut Teknologi Bandung, Indonesia 2015'. DAAD Partnership Activities 2013 - 2016 with partners institutes University of Kaiserslautern, Germany - University of Colombo, Sri Lanka - Kathmandu University, Nepal - Institut Teknologi Bandung, Indonesia. He has published two articles in the international peer reviewed journals in the year 2015.

Mr. Buddhi Prasad Sapkota

- Participated in the conference on 5th International Congress on Computational Mechanics and Simulation (ICCMS-2014), from 10-13 December 2014, organized by Council of Scientific and Industrial Research/SERC, Chennai, India and presented a paper on Numerical Modeling of Indoor Air Pollution Distribution using Navier-Stokes Equation. He Participated a national course on Mathematics For Engineering Education under the technical Knowledge Incubation Centre/Education Quality

Improvement Program (KIC-TEQIP) by Ministry of Human Resource Development/Centre for Educational Technology IITG.

- Participated in a Workshop on COMSOL Multiphysics 2015 organized by Department of Chemical Engineering IIT Guwahati / Reflux 2015 on 27th-29 March 2015. He Participated a Internship program from 10th Jan-26th March 2015 in Indian Institute of Technology Guwahati (IITG) and taken one semester courses on Advanced Computational Fluid Dynamics and Mechanics, worked in Computational Lab of IITG, and Environmental lab, taken data of the quality of indoor air pollutants.

Mr. Umesh Rajopadaya

- Presented a paper entitled Common Fixed Point Theorem For Six Mappings in Semi-metric space in 18th International Mathematics conference organized by Bangladesh Mathematical Society at Independent University, Dhaka, Bangladesh from January 20-22 ,2014.

IN RESEARCH COLLABORATION

The four Ph. D. candidates: **Jeevan Kafle, Parameshwari Kattel, Khim B. Khattri and Puskar R. Pokhrel** from Kathmandu University made poster presentation at *International Symposium on Glaciology in High-Mountain Asia*, Kathmandu, Nepal, on 1-6 March, 2015 and oral presentations at *Applied Mathematics Seminar-Mathematics with Applications*, Central Department of Mathematics, Kirtipur, TU, Kathmandu, Nepal, on 19-20, September, 2014.

Presented Papers:

At *International Symposium on Glaciology in High-Mountain Asia*. Kathmandu, Nepal, 1-6 March, 2015 (Financial support from The International Glaciological Society, Scott Polar Research Institute, Lensfield Road, Cambridge CB2 1ER for the participation):

- Kafle, J., Pokhrel, P. R., Khattri, K. B., Kattel, P., Tuladhar, B. M., Pudasaini, S. P., 2015: Submarine landslide and particle transport in mountain lakes, reservoirs and hydraulic plants.
- Kattel, P., Khattri, K. B., Pokhrel, P. R., Kafle, J., Tuladhar, B. M., Pudasaini, S. P., 2015: Simulating Catastrophic Two-Phase Mass Flows in High Mountain Slopes and Torrents.

At *Applied Mathematics Seminar-Mathematics with Applications*. Central Department of Mathematics, Kirtipur, TU, Kathmandu, Nepal, 19-20, September, 2014.

- Kafle, J., Kattel, P., Khattri, K.B., Pokhrel, P.R., Tuladhar, B. M., Pudasaini, S. P., 2014: Mathematical Modeling and Simulation of : A Two-Phase and Three Dimensional Submarine Landslide and a Fluid Reservoir.
- Kattel, P., Kafle, J., Pokhrel, P. R., Khattri, K.B., Tuladhar, B.M., Pudasaini, S.P., 2014: Some High-Resolution Simulation Results for Quasi Three- Dimensional and Two Phase Mass flow Dynamics.
- Khattri, K.B., Pokhrel P.R., Kafle J., Kattel P., Tuladhar, B.M., Pudasaini S.P., 2014: Sub-diffusive and Sub-advective Model for Fluid Flows in Porous/Debris Media: Some Exact and Numerical Solutions.
- Pokhrel, P.R., Khattri K.B., Kattel P., Kafle J., Tuladhar, B.M., Pudasaini S.P., 2014: Enhanced Simulations of Two Phase Mass Flows with General Phase-Eigenvalues and Phase-Wave-Speeds.

Mr. Parameshwari Kattel

- Participated at *Bandung International Workshop on Biomathematics and Mathematical Finance*,

Bandung, Indonesia, May 25-June 5, 2015, organized by DAAD Partnership Activities 2013-2016 and presented a paper: Some Aspects of Two-Phase Mass Flows: Modeling, Dynamics and Simulation Akin to a Glacial Lake Outburst Flood Scenario.

- Participate in Compact Course on Multi-scale Modeling and Mean Field Limits.

Mr. Ganga Ram Phaijoo

(Lecturer at Kathmandu University, Department of Natural Sciences, Mathematics and PhD candidate)

Participations:

- Second International Conference on Interdisciplinary Research in Engineering, Management, Pharmacy and Science (ICIREMPS 2K15), Bhopal, India, 20 – 22, February, 2015
- Mathematical Finance and Stochastic Model. *Bandung International Workshop on Biomathematics and Mathematics of Finance*, Bandung, Indonesia, May 25 - June 5, 2015. Organized by DAAD Partnership Activities 2013 - 2016.
- Compact Course on Multi-scale Modeling and Mean Field Limits. *Bandung International Workshop on Biomathematics and Mathematics of Finance*, Bandung, Indonesia, May 25 - June 5, 2015. Organized by DAAD Partnership Activities 2013-2016 (Financial support from DAAD).

Presented Papers:

- Phaijoo, G.R., Gurung, D.B., 2014: A Mathematical Model of Dengue Dynamics.

Applied Mathematics Seminar-Mathematics with Applications. Central Department of Mathematics, Kirtipur, TU, Kathmandu, Nepal, 19 - 20, September, 2014

- Phaijoo, G. R., Gurung, D.B., 2015: Analysis of Dengue Disease Transmission with Awareness in both Susceptible and Infected Host Population. *Second International Conference on Interdisciplinary Research in Engineering, Management, Pharmacy and Science (ICIREMPS 2K15)*, Bhopal, India, 20 – 22, February, 2015
- Phaijoo, G. R., Gurung, D.B., 2015: Mathematical model on analysis of awareness in controlling the dengue disease. *Bandung International Workshop on Biomathematics and Mathematics of Finance*, Bandung, Indonesia, May 25 - June 5, 2015

ON-GOING PROGRAM

- Dr. Shiva Pudasaini from Bonn University, Germany is conducting special lecture series on “Physical-Mathematical Modelling and Computing” to M. Phil. Students of TU and KU at Central Department of Mathematics, Kirtipur from July 18 to August 14, 2015

FORTH COMING EVENTS

- Nepal Mathematical Sciences Trust is organizing Guru Abhinanda (Felicitation Program) in August 2015. The eight senior Mathematicians who have served more than 50 years and are over 75 years: Prof. Dr. Ram Man Shrestha, Prof. Dr. Shanker Raj Pant, Prof. Sushil Kumar Shrestha, Prof. Omkar Nath Pant, Prof. Nripati

Lal Pradhananga, Prof. Sungma Tuladhar, Prof. Buddha Sharan Manandhar and Prof. Mrigendra Lal Singh will be felicitated in that special program. The first felicitation program was organized jointly by Nepal Mathematical Education Council, Nepal Mathematical Society and Nepal Mathematics Center on May 12, 2012. Nepal Mathematical Science Trust was formed during that May 2012 program.

- International Conference on Functional Spaces and Inequalities will be organized by South Asian University (SAU), Akbar Bhawan, Chanakyapuri, New Delhi, INDIA from December 8–12, 2015. For more detail, please do visit the website: <http://fsiconf.sau.int>.

Best wishes

to

Nepal Mathematical Society

on the occasion

of

37th Anniversary

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“As I have indicated in your first question, Mathematics education today is a lot applied, practical and interesting. It has accommodated a lot of research, findings and getting improvement day by day especially at school level. I am quite happy with this trend.”



Prof. Omkar Nath Pant

Prof. Omkar Nath Pant, born on Asar 1997 B.S. Did his M. Sc. from TU. He started his teaching career in 1961 AD. He joined government service as Mathematics Education Specialist CTSDC MOE in 1970. There are lots of works to his credit viz text books, researches, training, consultancy, etc. To date he is Advisor cum Academic co-ordinator at Brihaspati Vidhya Sadan.

☞ **Your involvement has been in the mathematics education in Nepal for a very long time. How do you see the development of mathematics from the beginning of your career?**

- I started teaching mathematics from 2012 B.S, immediately after my SLC. In those days mathematics was considered a difficult subject and those students who were good at memorization through rote learning used to opt for this subject. Most of the teaching learning activities were not creative, emphasis was more on memorization. The application of the learning was very little. However, in course of time it went on improving, in the sense that it became

more applied, practical and interesting. At present the situation is to my satisfaction.

☞ **You are still actively engaged in mathematics education even today. As a teacher, curriculum designer, text book writer and researcher, what is your opinion regarding the improvement of mathematics education in Nepal?**

- As I have indicated in your first question, Mathematics education today is a lot applied, practical and interesting. It has accommodated a lot of research, findings and getting improvement day by day especially at school level. I am quite happy with this trend.

☞ **Sir, it is a reality that number of students in math classes at higher level is not high. In you view what factors are responsible of it and also suggest the measures to improve the situation?**

- You are right. The number of students at higher level in specific math classes has not been so much, and it would be due to the fact that new trends in mathematics education in Nepal at higher level have not yet been sufficiently adopted. It means, still it is not practical and interesting. It may be that the educators at that level are the ones who had come through the old traditional system of mathematics education. The

use of math, however, in other subjects has increased. So, in total, the number of students learning math at higher level is a not more.

☞ **The mathematical science trust (MST) is going to honor by facilitating you having the Chariot Procession as per over Nepalese culture for your great contribution in the development of Mathematics education in Nepal. How do you feel about it?**

- (Laughing) I feel happy about it. But the real feeling of it, I think, will come after the program.

Courtesy

Prof. Dr. Siddhi Pd. Koirala, NMS Advisor



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Prof. Dr. Santosh Man Maskey*(12-07-1947 AD)**Life-member of NMS**Family Background:*

Santosh Man Maskey is the Professor of Mathematics, Emeritus, Tribhuvan University. He was born on July 12, 1949 at Kathmandu. He is the son of Eminent Artist Chandra Man Singh Maskey and Aashamaya Maskey. Presently, he is residing at Dokhadole, Sanepa, Lalitpur. He got married to Bishwomahini Rajbhandari in 1979. He is father of two sons and one daughter.

Education

He completed his SLC from Vishwo Niketan High School, Tripureswor, Kathmandu in 1964. He completed I. Sc. from Amrit Science College in 1967 and B. Sc. from Tri-Chandra College in 1969. He followed the profession of teaching as his father, who later became the technical administrator. He took interest in science faculty, but not in fine arts and continued his higher education in the field of mathematics. He got the degree of M. Sc. in mathematics from Tribhuvan University with First Division in 1971. In 1972 he attended the one-year M. Ed. (Mathematics) program. He completed this academic program in 1973 with First Class scores. With the desire of acquiring more knowledge and to become a competent teacher in the profession of mathematics teaching, he decided to do research in his field of interest. As there was no research environment and research facility at Tribhuvan University during those days, he adventured to achieve his goal at his own expense. He was granted the study leave with full salary from

TU. He contacted several A-class universities of India and finally joined the Delhi University. He got admission to M. Phil. Program in Mathematics. After attending the theory courses of the program, he was permitted to register for Ph.D. program in Mathematics. There was tough requirement of 45 – 50% of research works in the Ph.D. thesis with published/accepted for publication from different research journals. He got through this 'Iron Gate' of published works from European mathematical journals and allowed to submit the thesis entitled "A Study of Schauder Decomposition of Banach Spaces" under the guidance of Prof. Pawan Kumar Jain in 1982. His Ph. D. via was held on 7 March 1984. And he attended the Convocation of Delhi University of the same year after two weeks. He has published eight research papers from different mathematics journals of Europe. In 1986, he attended a ten-week long Mathematics Teacher Education Training Program at University of Philippines, Manila.

Services and Contributions

Because of his interest to become a professional mathematics teacher, he was appointed temporarily, as Assistant Lecturer at the Institute of Education in 1972. He was appointed in the permanent post of Lecturer in 1974. In 1984, immediately after obtaining the Ph. D. degree, he got the opportunity to apply for the post of Reader in Mathematics Education and was selected to that post. His father was, indeed,

very pleased with the professional achievement of his son, but he had to miss him after two weeks with brief illness. He was fully engaged in teaching different courses of mathematics at different campuses. At the same time, he was busy with the training of secondary level school mathematics teachers as well. Besides this, he was assigned to teach the functional analysis course at Amrit Campus and Central Department of Mathematics, Kirtipur. In the year 1988, he was appointed as Professor of Mathematics at the Central Department of Education, Kirtipur. Beside teaching Analysis courses at Master's level, he attended several seminars and conference, both national and international, by delivering talks of invited lectures from expository type to high level mathematics. He has, so far, chaired eight academic sessions of the conference, home and abroad. He was invited to give a lecture series at South Asian University (SAU) in New Delhi in 2012 and at Katmandu University in 2013 under Instructional Workshop on Applied Mathematics (IWAM) of SAU. He has, so far, delivered 21 talks at national and international conferences.

Indra Kumari Bajracharya was awarded the Ph. D. degree in Mathematics Education from TU under his guidance. Recently, Ekaratna Acharya obtained Ph. D. degree in Mathematics from Nepal Sanskrit University (NSU), where Prof. Maskey was the Subject Expert. Ram Chandra Dahal was awarded M. Phil. Degree in Education from TU under his guidance. He was the thesis supervisor of 17 students of Master level in mathematics education and mathematics. He has been appointed, several times, as the External Examiner of Ph. D. level thesis in mathematics, M. Phil. level thesis in mathematics of Kathmandu University; Master level thesis in mathematics/mathematics education of Tribhuvan University. He has been appointed, several times, as the Subject Expert in evaluating the research proposals in mathematics/mathematics education submitted to different institutions; mathematics teacher selection committee member for different post of TU, KU, NSU and Purwanchal University.

Besides his participations in the mathematics conferences of Nepal and SAARC (New Delhi, Dhaka), he participated in the conference of the Abdus Salam ICTP, Trieste, Italy. He was appointed as the Regular Associate of ICTP from Nepal during the period January 1, 1995 to December 31, 2000.

He was the member/coordinator of several academic committees/professional societies like: Affiliate Member of AMS, USA in the period of January 1996 – December 2008; MAA, USA in the period of January – December 2003; NCTM, USA in the period of May 1996 - January 1997.

Book Publications

In the context of mathematics education in Nepal at all levels, Prof. Maskey thought that the primary need of the nation is the publication of standard mathematic textbooks rather than the high level research in mathematics. With this view in mind, he published books of undergraduate level and school mathematics books of primary and secondary level. Some of his books published are:

1. Introduction to Modern Mathematics, Volumes - 1, Ratna Pustak Bhandar, Kathmandu, 1995, Fourth Edition - 2002
2. Introduction to Modern Mathematics, Volumes - 2, Ratna Pustak Bhandar, Kathmandu, 1995, Third Edition – 2000.
3. First course in Graph Theory, Ratna Pustak Bhandar, Kathmandu, 1998, Second Edition – 2002.
4. Principles of Real Analysis, Bhundipuram Publication, Kathmandu, 2001.
5. Calculus, Ratna Pustak Bhandar, Kathmandu, 2008
6. Discrete Mathematics with Applications (co-author)

Presently, he is engaged in the study of History of Mathematics in Nepal and its relation with the history of Nepalese paintings.

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