

International Conference on
Applications of Mathematics to Nonlinear Sciences
(AMNS-2016)
May 26-29, 2016
Program

Thursday, May 26	
8:00am - 4:00pm	Registration
8:00am - 8:30am	Coffee
8:30am - 9:15am	Welcome/Opening

9:30am - 3:50pm

Mathematical Biology Workshop

Room: Hall 1

Moderator: Naveen Vaidya

Parallel Sessions		
	Invited Session (Analysis) Room: Hall 2 Chair: Kahnaiya Jha	Invited Session (Probability, Stat., and Big Data) Room: Hall 3 Chair: Gokarna Aryal
9:40 - 10:00am	Kanhaiya Jha	Siuli Mukhopadhyay (canceled)
10:00 - 10:20am	Kalimuddin Ahmad	Gokarna Aryal
10:20 - 10:40am	Dhruba Adhikari	K. D. Sen
10:40 - 11:00am	Shivam Shreevastava	Ghanshyam Bhatt
11:00 - 11:20am	Satyanand Panda	Budhinath Padhy
11:20 - 11:40am	Hironori Shiga	C. B. Gupta
11:40 - 12:00noon	Ajit Kumar Singh	S. Sivaprasad Kumar

Lunch (12:00 - 1:30pm)

	Invited Session (Analysis) Room: Hall 2 Chair: Rajendra Dahal	Invited Session (Statistics and Applications) Room: Hall 3 Chair: Buddhinath Padhy
1:30 - 1:50pm	Rajendra Dahal	Netra Khanal
1:50 - 2:10pm	Kaushik Bal	Sharmistha Ghosh
2:10 - 2:30pm	Krishna Subedi	Subhash Shende
2:30 - 2:50pm	Anita Tomar	Sampath Kalluri
2:50 - 3:10pm	Debraj Chakraborty (canceled)	R. P. Aryal
3:10 - 3:30pm	Raj Kumar Gupta	B. S. Chaudhary

Coffee (3:30 - 4:10pm)

4:10 - 5:00pm Principal 1	Jiahong Wu: <i>The two-dimensional Boussinesq equations with partial dissipation</i> Room: Hall 1 Chair: Netra Khanal
5:00 - 5:30pm Plenary/Special Invited 1	Maya Chhetri: <i>Global bifurcation of positive solutions for a class of superlinear elliptic systems</i> Room: Hall 1 Chair: Gajendra B. Thapa

Reception (6:00pm-8:00pm)

Friday, May 27				
8:30 - 9:00am	Coffee			
9:00 - 9:50am	Ratnasingham Shivaji: <i>Semipositone Problems</i> Room: Hall 1 Chair: Stephen B Robinson			
9:50 -10:20am	Stephen B Robinson: <i>Eigencurves for the Steklov-Robin problem</i> Room: Hall 1 Chair: Dhruba Adhikari			
Principal 2				
Plenary/Special Invited 2				
Parallel Sessions				
	Invited Session (Math Biology) Room: Hall 1 Chair: Adnan Sljoka	Invited Session (Numerical Analysis) Room: Hall 2 Chair: Harihar Khanal	Invited Session (Modeling) Room: Hall 3 Chair: Prashant Kumar Mishra	Invited Session (Topology and Math. Education) Room: Hall 4 Chair: Özen ÖZER
10:30 - 10:50am	Adnan Sljoka	Milan Hladik	Prashant Kumar Mishra	Özen ÖZER
10:50 - 11:10am	S. Srinivas	Hsing Luh	Dil Bahadur Gurung	Kailash Ghimire
11:10 - 11:30am	BSRV Prasad	Mohan Thapa	M.A. Khanday	Vandana Tiwari
11:30 - 11:50am	Eugenio M. Rocha	Ashok Misra	Akhil Srivastav	Narayan Pahari
11:50 - 12:10pm				Deepak Basval

Lunch (12:10pm-1:20pm)

1:20 - 2:10pm	Lindi M. Wahl: <i>Predicting the fate of rare mutations in microbial populations</i> Room: Hall 1 Chair: Naveen Vaidya			
2:10 - 2:40pm	Narendra Dixit: <i>Bistability in the interferon signaling network underlies the failure of hepatitis C treatment</i> Room: Hall 1 Chair: M. Stanca Ciupe			
2:50 - 3:20pm	Jane Heffernan: <i>Multi-Scale Modelling and Public Health</i> Room: Hall 1 Chair: Dil B. Gurung		Wolfarm Decker: <i>Challenges in the Development of Open Source Computer Algebra Systems</i> Room: Hall 2 Chair: Gerard Pfister	

Coffee (3:20-3:45pm)

Parallel Sessions				
	Contributed Session (Math Biology) Room: Hall 1 Chair: Jai Prakash Tripathi	Contributed Session (Numerical Analysis) Room: Hall 2 Chair: Ghanshyam Bhatt	Contributed Session (Optimization) Room: Hall 3 Chair: Ram P. Ghimire	Contributed Session (Modeling) Room: Hall 4 Chair: Samir Shrestha
3:45 - 4:00pm	Jai Prakash Tripathi	M. K. Mallick	Ram P. Ghimire	Samir Shrestha
4:00 - 4:15pm	S.D. Perera	Lukas Krupicka	Urmila Pyakurel	W.J. Jannidi
4:15 - 4:30pm	Ganga Ram Phaijoo	Jeevandhar Gnawali	CR Rajapaksa	Ami Raj Adhikari
4:30 - 4:45pm	Maneesha Premaratne	Raju Bhusal	Basudev Ghimire	Parameshwari Kattel
4:45 - 5:00pm	Chitaranjan Mahapatra	Subhash Subedi	Shyam Sundar Sah	Kaji Prasad Ghimire

Kathmandu Tour (5:00pm-6:30pm)

Saturday, May 28	
8:30 - 9:00am	Coffee
9:00 - 9:50am Principal 4	Gerhard Pfister: <i>Algebraic Geometry in Applications</i> Room: Hall 1 Chair: Tanka N Dhamala
9:50 - 10:20am Plenary/Special Invited 6	Ying-Hen Hsieh: <i>Impact of Catastrophic Events on Spread of Dengue: The Case of 2014 Gas Explosion in Kaohsiung, Taiwan</i> Room: Hall 1 Chair: Luis Melara

Parallel Sessions			
	Invited Session (Math Biology) Room: Hall 1 Chair: Hem Raj Joshi	Invited Session (Differential Equations) Room: Hall 2 Chair: Lakshmi Sankar	Invited Session (Numerical Analysis) Room: Hall 3 Chair: K.K. Viswanathan
10:30 - 10:50am	Hem Raj Joshi	Lakshmi Sankar (canceled)	K.K. Viswanathan
10:50 - 11:10am	Gergely Rost	Eunkyung Ko	Manmohan Dass Goel
11:10 - 11:30am	Naveen K. Vaidya	T.V. Anoop	Dadang Amir Hamzah
11:30 - 11:50am	Luis Melara	Chun-Hsiung Hsia	Harihar Khanal
11:50 - 12:10pm	Attila Denes	Sarath Sasi (canceled)	Gurmeet Singh

Lunch (12:10pm-1:30pm)

1:30 - 2:20pm Principal 5	Dongho Chae: <i>Challenging mathematical problems in fluid mechanics</i> Room: Hall 1 Chair: Stefan Mancas	
2:20 - 2:50pm Plenary/Special Invited 7	Robert Smith?: <i>A metapopulation model for spread of MRSA in correctional facilities</i> Room: Hall 1 Chair: Jane Heffernan	
2:50pm - 3:50pm	Poster/Coffee	
3:50 - 4:20pm Plenary/Special Invited 8/9	Elissa Schwartz: <i>Antibody kinetics of equine infectious anemia virus infection of horses</i> Room: Hall 1 Chair: Robert Smith?	Stefan Mancas: <i>Cavitation of spherical bubbles with surface tension and viscosity and connection of RP with FRW cosmological equations</i> Room: Hall 2 Chair: Kedar Uprety
4:20 - 4:50pm Plenary/Special Invited 10/11	M. Stanca Ciupe: <i>A bi-stable switch in virus dynamics can explain the differences in disease outcome following SIV infections in rhesus macaques</i> Room: Hall 1 Chair: Elissa Schwartz	Chaudry Masood Khalique: <i>Exact solutions and Conservation laws for a (2+1) dimensional KdV-mKdV equation</i> Room: Hall 2 Chair: Stefan Mancas

Banquet (6:00pm - 8:00pm)

Sunday, May 29				
8:30 - 9:00am	Coffee			
9:00 - 9:30am Plenary/Special Invited 12	Mukesh Dhamala: <i>Delayed Neuronal Interactions and Synchronization in the Brain</i> Room: Hall 1 Chair: Chet R. Bhatta			
9:30 - 10:00am Plenary/Special Invited 13	Tanka N. Dhamala: <i>Impact of Network Flow Solutions in Emergency Planning</i> Room: Hall 1 Chair: Hsing Luh			
10:10 - 10:40am Plenary/Special Invited 14/15	Mythily Ramaswamy: <i>Ingham type inequalities and applications</i> Room: Hall 1 Chair: Maya Chhetri		Yijun Lou: <i>Impact of biodiversity on Lyme-pathogen transmission</i> Room: Hall 2 Chair: Harihar Khanal	
Parallel Sessions				
	Contributed Session (Math Biology) Room: Hall 1 Chair: Gokul K.C.	Contributed Session (Modeling) Room: Hall 2 Chair: Sushil Chandra Karna	Contributed Session (Analysis) Room: Hall 3 Chair: Mitra Devkota	Contributed Session (Topology) Hall 4 Chair: Dinesh Panthi
10:50 - 11:05am	Gokul K.C.	Sushil Chandra Karna	Mitra Devkota	Dinesh Panthi
11:05 - 11:20am	Mamta Agrawal	Buddhi P. Sapkota	Bishnu H. Subedi	Umesh Rajopadhyaya
11:20 - 11:35am	Saraswati Acharya	Jeevan Kafle	Dhana Kumari Thapa	K.B. Manandhar
11:35 - 11:50am	Ramesh Chandra Timsina	Khim B. Khattri	Harish Chandra Bhandari	Pawan Kumar Karna
11:50 - 12:05pm	Sushil Ghimire	Puskar Pokhrel	R.O. Olayiwola	
Closing remarks (12:10 – 12:20pm) Hall 1				
Lunch (12:20pm - 1:20pm)				