

Second International Conference on
Applications of Mathematics to Nonlinear Sciences
(AMNS-2019)

June 27-30, 2019
Pokhara, Nepal

Program

Thursday, June 27				
8:30am-4:00pm	Registration			
8:30-9:00am	Coffee			
9:00-9:45am	Welcome/Opening Ceremony			
10:00-10:50am Plenary 1	Jerry Bona: <i>Applications of Model Equations for Water Waves</i> Room: Kaski Baithak Chair: Netra Khanal			
Invited Sessions				
	MB Room: Kaski Baithak Chair: Cameron Browne	ME Room: Fewa Baithak Chair: Kedar Nepal	DE/NA Room: Barahi Baithak Chair: Rajendra Dahal	DE/NA Room: Board Room Chair: Jose E Castillo
11:00-11:25am	Cameron Browne	Milos Savic, Gail Tang	Shiv K. Kaushik	Jose E Castillo
11:25-11:50am	Jonathan Forde	Magesh Chandramouli	Jerome Gilles	Hongqiu Chen
11:50-12:15pm	Adnan Sljoka	Basanta R. Lamichhane	Menassie Ephrem	Wei Feng
12:15-1:25pm	Lunch Break			
1:30-2:20pm Plenary 2	Gail S. K. Wolkowicz: <i>Predator-Prey and Host Parasitoid Dynamics: A Bifurcation Theory Approach</i> Room: Kaski Baithak Chair: Robert Smith?			
2:30-3:05pm Special Invited 1/2	Shigui Ruan: <i>Modeling and Analyzing the Transmission Dynamics of Visceral Leishmaniasis</i> Room: Kaski Baithak Chair: Hem Raj Joshi		Kapil K. Sharma: <i>Orthogonal Spline Collocation Methods for Singularly Perturbed Problems (canceled)</i> Room: Fewa Baithak Chair: Kedar N. Uprety	
3:05-3:20pm	Coffee Break			
Contributed Sessions				
	DE/NA Room: Kaski Baithak Chair: Dinesh Panthi	MB Room: Fewa Baithak Chair: Buddhi Pantha	SC/OP Room: Fewa Baithak Chair: Manoj Thapa	ST Room: Board Room Chair: Ram C. Kafle
3:20-3:35pm	Dinesh Panthi	Buddhi Pantha	Manoj Thapa	Ram C. Kafle
3:35-3:50pm	Jhavi Lal Ghimire	Vijay Bajiya	Puskar Raj Pokhrel	Gokarna Aryal
3:50-4:05pm	Bhuwan P. Ojha	Bhawna Malik	Jeevan Kafle	Netra Khanal
4:05-4:20pm	Ghanshyam Bhatt	Hem Raj Joshi	Ram Sharan Adhikari	Keshav Pokhrel
4:20-4:35pm	Bijaya Pokharel	Sharad Silwal	Phanindra Bhandari	
4:35-4:50pm	Dhruba Adhikari	Madhav Wagle	Prem Bahadur Chand	

Friday, June 28				
4:15am-8:15am	Shanti Stupa Sunrise View			
8:30am-4:00pm	Registration			
8:00-8:30am	Coffee			
8:30-9:20am Plenary 3	Gianni Dal Maso: <i>A Maximal Dissipation Condition for Dynamic Fracture with an Existence Result in a Constrained Case</i> Room: Kaski Baithak Chair: Dhruba Adhikari			
9:30-10:05am Special Invited 3/4	Lindi Wahl: <i>Blurring the Lines between Predator and Prey: the Evolution of Temperate Viruses</i> Room: Kaski Baithak Chair: Jane Heffernan	Dave Kung: <i>Mind the Gap: Bridging between educational research and college math teaching</i> Room: Fewa Baithak Chair: Deepak Basyal		
10:05-10:20am	Coffee Break			
Invited Sessions				
	DE/NA Room: Kaski Baithak Chair: Svetlana Roudenko	MB Room: Fewa Baithak Chair: Amber Smith	ME Room: Barahi Baithak Chair: Bal Chandra Luitel	AT Room: Board Room Chair: Timothy Trujillo
10:20-10:45am	Svetlana Roudenko	Amber Smith	Mohan Thapa	Timothy Trujillo
10:45-11:10am	Kai Yang	Elissa Schwartz	Bishnu Khanal	Toshihisa Kubo
11:10-11:35pm	Anudeep Kumar Arora	Libin Rong	Pradip Aryal	Naomi Tanabe
11:35-12:00pm	Santosh Pathak	Stanca Ciupe	Kedar Nepal	Chadwick Gugg
12:00-12:25pm	Kedar N. Uprety	Robert Smits	Gaya Jayakody	Bishnu Hari Subedi
12:25-1:30pm	Lunch Break			
1:30-2:20pm Plenary 4	Chris Rasmussen: <i>Insights from Two National Studies of Precalculus through Calculus 2</i> Room: Kaski Baithak Chair: Kedar Nepal			
2:30-3:05pm Special Invited 5/6	Xingfu Zou: <i>Modelling fear effects in predator-prey interactions</i> Room: Kaski Baithak Chair: Gergely Röst	Andrei Ludu: <i>Time Dependent Dynamical Systems with Accelerated Change</i> Room: Fewa Baithak Chair: Harihar Khanal		
3:05-3:40pm	Poster Session/Coffee Break			
Contributed Sessions				
	MB Room : Kaski Baithak Chair: Anushaya Mohapatra	DE/NA Room: Fewa Baithak Chair: Debendra Banjade	ME Room: Barahi Baithak Chair: Sarala Luitel	NA/SC/OP Room: Board Room Chair: Jivandhar Jnawali
3:40-3:55pm	Anushaya Mohapatra	Debendra Banjade	Sarala Luitel	Jivandhar Jnawali
3:55-4:10pm	Avinita Gautam	Sarita Kumari	Krishna P. Pokharel	Manish K. Mishra
4:10-4:25pm	Sarita Bugalia	Ananta Upreti	Sagar Dahal	Iswar Mani Adhikari
4:25-4:40pm	Rabindra Gupta	Ramesh Karki	Indramani Shreshtha	Tanmay Kundu
4:40-4:55pm	Kabita Luitel	Sharma Priya R	Tara Paudel	Ananda P. Pant
4:55-5:10pm	Anup Tuladhar	Raj Dahal	Deepak Basyal	Bharat Raj Wagle
Photo Session: 6:20pm				
Banquet: 6:30pm-8:30pm				

Saturday, June 29				
8:30am-4:00pm	Registration			
8:00-8:30am	Coffee			
8:30-9:20am Plenary 5	Ian W. McKeague: <i>Stein's Method and the Many Interacting Worlds Interpretation of Quantum Mechanics</i> Room: Kaski Baithak Chair: Keshav Pokhrel			
9:30-10:05am Special Invited 7/8	Robert Smith?: <i>The Effects of Stigma on Leprosy</i> Room: Kaski Baithak Chair: Stanca Ciupe	Bal Chandra Luitel: <i>Research for All: Transforming Hearts, Minds and Souls of Researchers through STEAM Education</i> Room: Fewa Baithak Chair: Krishna K. Shrestha		

10:05-10:20am	Coffee Break			
Invited Sessions				
	MB Room: Kaski Baithak Chair: Jane Heffernan	MB Room: Fewa Baithak Chair: Paul Hurtado	DE/NA Room: Barahi Baithak Chair: Navnit Jha	PS Room: Board Room Chair: Prameshwari Kattel
10:20-10:45am	Jane Heffernan	Paul Hurtado	Navnit Jha	N. Jalatheeswari
10:45-11:10am	Hui Wu	Hayriye Gulbudak	Lucrezia Cossetti	Dhaneshwor Prasad
11:10-11:35pm	David Gerberry	Wenxia Li	Xiaoyan Liu	Venkata S. Sajja
11:35-12:00pm	Gergely Rost	Andrei Ludu	Dongmei Xiao	Prabhash Pokhrel
12:00-1:05pm	Lunch Break			
1:10-2:00pm Plenary 6	Philip Maini: <i>Modelling Collective Cell Migration</i> Room: Kaski Baithak Chair: Naveen Vaidya			
Contributed Sessions				
	DE/NA Room: Kaski Baithak Chair: Harihar Khanal	MB Room: Fewa Baithak Chair: Saroj Kumar Sahani	ME Room: Barahi Baithak Chair: Pradip Aryal	NA/SC/OP Room: Board Room Chair: Shree Ram Khadka
2:10-2:25pm	Harihar Khanal	Saroj Kumar Sahani	Binod Prasad Pant	Shree Ram Khadka
2:25-2:40pm	Subas Acharya	Yashi Yashi	Irina Aryal	Ram Chandra Dhungana
2:40-2:55pm	Ramesh C. Timsina	Gauri Bhujju	Niroj Dahal	Suyog Garg
2:55-3:10pm	Lucrezia Cossetti	Tanuja Das	Gokarna Aryal	Prameshwari Kattel
3:30pm --	Gandaki Trout Farm Tour			

Sunday, June 30				
8:30am-9:00am	Coffee			
9:00-9:35am Special Invited 9	Narendra Dixit: <i>A dynamical motif defining the fates of viral infections</i> Room: Kaski Baithak Chair: Libin Rong			
9:40-10:15am Special Invited 10	John Borkowski: <i>An Overview of Several Methods for Generating Space-Filling Sets of Experimental Design Points</i> Room: Kaski Baithak Chair: Gokarna Aryal			
10:15-10:30 am	Coffee Break			
Contributed Sessions				
	DE/NA/AT Room: Kaski Baithak Chair: Keshav Acharya	DE/NA Room: Fewa Baithak Chair: Narayan Pahari	Panel Discussion Room: Barahi Baithak Chair: Elissa Schwartz	NA/SC/OP Room: Board Room Chair: Narendra N. Jha
10:30-10:45am	Keshav Acharya	Amita Tripathi	Academic success forum for discussions to address questions and present solutions to challenges faced on career path	Narendra N. Jha
10:45-11:00am	Pawan Shrestha	Real Jung KC		Ganesh Sapkota
11:00-11:30am	Pawan Kumar B.K.	Krishna K. Shrestha		Mubadsher Rashid Rather
11:30-12:00 pm	Surendraraj Pathak	Arun Kumar		
12:00-12:30pm	Final Remarks / Top 3 poster presentations announcement Room: Kaski Baithak			
12:30-1:20pm	Lunch			
1:30pm	KTM departure			

DE/NA = Differential Equations/Nonlinear Analysis

MB = Mathematical Biology

ST = Probability, Statistics, and Big Data

PS = Physical Sciences

AT = Algebra and Topology

ME = Mathematical Education

NA/SC/OP = Numerical Analysis/Scientific Computation/Optimization