

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

June 27-30, 2019  
Pokhara, Nepal

## Program

Thursday, June 27				
8:00am-4:00pm	<b>Registration</b>			
8:00-9:00am	<b>Coffee</b>			
9:00-9:45am	<b>Welcome/Opening Ceremony</b>			
10:00-10:50am <b>Plenary 1</b>	Jerry Bona: <i>Applications of Model Equations for Water Waves</i> Room: Kaski Baithak Chair: Netra Khanal			
Invited Sessions				
	<b>MB</b> Room: Kaski Baithak Chair: Cameron Browne	<b>ME</b> Room: Fewa Baithak Chair: Kedar Nepal	<b>DE/NA</b> Room: Barahi Baithak Chair: Jose E Castillo	<b>DE/NA</b> Room: Board Room Chair: Rajendra Dahal
11:00-11:25am	Cameron Browne	Milos Savic and Gail Tang	Jose E Castillo	Shiv K. Kaushik
11:25-11:50am	Jonathan Forde	Magesh Chandramouli	Hongqiu Chen	Jerome Gilles
11:50-12:15pm	Hem Raj Joshi	Basanta R. Lamichhane	Wei Feng	Menassie Ephrem
12:15-1:25pm	<b>Lunch Break</b>			
1:30-2:20pm <b>Plenary 2</b>	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 <b>Special Invited 1/2</b>	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	<b>Coffee Break</b>			
Contributed Sessions				
	<b>MB</b> Room: Kaski Baithak Chair: Buddhi Pantha	<b>DE/NA</b> Room: Fewa Baithak Chair: Dinesh Panthi	<b>SC/OP</b> Room: Barahi Baithak Chair: Manoj Thapa	<b>ST</b> Room: Board Room Chair: Ram C. Kafle
3:20-3:35pm	Buddhi Pantha	Dinesh Panthi	Manoj Thapa	Ram C. Kafle
3:35-3:50pm	Vijay Bajjiya	Bhuwan P. Ojha	Puskar Raj Pokhrel	Gokarna Aryal
3:50-4:05pm	Bhawna Malik	Ghanshyam Bhatt	Jeevan Kafle	Netra Khanal
4:05-4:20pm	Sharad Silwal	Bijaya Pokharel	Ram Sharan Adhikari	Keshav Pokhrel
4:20-4:35pm	Madhav Wagle	Rajendra Dahal	Phanindra Bhandari	
4:35-4:50pm		Dhruba Adhikari	Prem Bahadur Chand	

<b>Friday, June 28</b>				
4:15am-7:45am	<b>Shanti Stupa Sunrise View</b>			
8:00am-4:00pm	<b>Registration</b>			
8:00-8:30am	<b>Coffee</b>			
8:30-9:20am <b>Plenary 3</b>	Gianni Dal Maso: <i>A Maximal Dissipation Condition for Dynamic Fracture with an Existence Result in a Constrained Case</i> Room: Kaski Baithak Chair: Dhruva Adhikari			
9:30-10:05am <b>Special Invited 3/4</b>	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	<b>Coffee Break</b>			
<b>Invited Sessions</b>				
	<b>MB</b> Room: Kaski Baithak Chair: Amber Smith	<b>DE/NA</b> Room: Fewa Baithak Chair: Svetlana Roudenko	<b>ME</b> Room: Barahi Baithak Chair: Bal Chandra Luitel	<b>AT</b> Room: Board Room Chair: Timothy Trujillo
10:20-10:45am	Amber Smith	Svetlana Roudenko	Mohan Thapa	Timothy Trujillo
10:45-11:10am	Elissa Schwartz	Kai Yang	Bishnu Khanal	Toshihisa Kubo
11:10-11:35pm	Libin Rong	Anudeep Kumar Arora	Pradip Aryal	Naomi Tanabe
11:35-12:00pm	Stanca Ciupe	Robert Smits	Kedar Nepal	Chadwick Gugg
12:00-12:25pm	Adnan Sljoka	Kedar N. Uprety	Gaya Jayakody	Bishnu Hari Subedi
12:25-1:30pm	<b>Lunch Break</b>			
1:30-2:20pm <b>Plenary 4</b>	Chris Rasmussen: <i>Insights from Two National Studies of Precalculus through Calculus 2</i> Room: Kaski Baithak Chair: Kedar Nepal			
2:30-3:05pm <b>Special Invited 5/6</b>	Narendra Dixit: <i>A dynamical motif defining the fates of viral infections</i> Room: Kaski Baithak Chair: Libin Rong	Andrei Ludu: <i>Time Dependent Dynamical Systems with Accelerated Change</i> Room: Fewa Baithak Chair: Harihar Khanal		
3:05-3:40pm	<b>Poster Session/Coffee Break</b>			
<b>Contributed Sessions</b>				
	<b>MB</b> Room : Kaski Baithak Chair: Anushaya Mohapatra	<b>DE/NA</b> Room: Fewa Baithak Chair: Debendra Banjade	<b>ME</b> Room: Barahi Baithak Chair: Sarala Luitel	<b>NA/SC/OP</b> 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	Anup Tuladhar	Sharma Priya R	Tara Paudel	Ananda P. Pant
4:55-5:10pm	Kabita Luitel	Santosh Pathak	Deepak Basyal	Bharat Raj Wagle
<b>Photo Session: 6:20pm</b>				
<b>Banquet: 6:30pm</b>				

<b>Saturday, June 29</b>				
8:00am-4:00pm	<b>Registration</b>			
8:00-8:30am	<b>Coffee</b>			
8:30-9:20am <b>Plenary 5</b>	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 <b>Special Invited 7/8</b>	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	<b>Coffee Break</b>			
<b>Invited Sessions</b>				
	<b>MB</b> Room: Kaski Baithak Chair: Jane Heffernan	<b>MB</b> Room: Fewa Baithak Chair: Paul Hurtado	<b>DE/NA</b> Room: Barahi Baithak Chair: Navnit Jha	<b>PS</b> Room: Board Room Chair: Parameshwari 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
12:00-1:10pm	<b>Lunch Break</b>			
1:10-2:00pm <b>Plenary 6</b>	Philip Maini: <i>Modelling Collective Cell Migration</i> Room: Kaski Baithak Chair: Naveen Vaidya			
<b>Contributed Sessions</b>				
	<b>MB</b> Room: Kaski Baithak Chair: Saroj Kumar Sahani	<b>DE/NA</b> Room: Fewa Baithak Chair: Harihar Khanal	<b>ME</b> Room: Barahi Baithak Chair: Pradip Aryal	<b>NA/SC/OP</b> Room: Board Room Chair: Shree Ram Khadka
2:10-2:25pm	Saroj Kumar Sahani	Harihar Khanal	Binod Prasad Pant	Shree Ram Khadka
2:25-2:40pm	Yashi Yashi	Subas Acharya	Irina Aryal	Ram Chandra Dhungana
2:40-2:55pm	Gauri Bhujju	Ramesh C. Timsina	Niroj Dahal	Suyog Garg
2:55-3:10pm	Tanuja Das	Lucrezia Cossetti	Gokarna Aryal	Parameshwari Kattel
3:30pm --	<b>Gandaki Trout Farm Tour</b>			

<b>Sunday, June 30</b>				
8:30-9:00am	<b>Coffee</b>			
9:00-9:35am <b>Special Invited 9</b>	Xingfu Zou: <i>Modelling fear effects in predator-prey interactions</i> <b>(canceled)</b> Room: Kaski Baithak Chair: Gergely Röst			
9:40-10:15am <b>Special Invited 10</b>	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	<b>Coffee Break</b>			
<b>Contributed Sessions</b>				
	<b>DE/NA/AT</b> Room: Kaski Baithak Chair: Keshav Acharya	<b>DE/NA</b> Room: Fewa Baithak Chair: Narayan Pahari	<b>Panel Discussion</b> Room: Barahi Baithak Chair: Elissa Schwartz	<b>NA/SC/OP</b> 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
11:00-11:15am	Pawan Kumar B.K.	Krishna K. Shrestha		Jhavi Lal Ghimire
11:15-11:30am	Surendraraj Pathak	Arun Kumar		Mubadsher Rashid Rather
11:45-12:15pm	Final Remarks / Top 3 poster presentations announcement Room: Kaski Baithak			
12:15-1:20pm	<b>Lunch</b>			
1:30pm	<b>KTM departure</b>			

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