

ISSCHC 07 Program

International Symposium on the Science and Conservation of Horseshoe Crabs 2007



11-14 June 2007
Dowling College, Oakdale
New York, USA

Session I	Population Status and Assessment
Session II	Biology, Ecology, and Multi-species Interactions
Session III	Culture and Captive Breeding
Session IV	Habitat Requirements, Management and Restoration
Session V	Biomedical Applications
Session VI	Traditional Uses
Session VII	Conservation and Management
Session VIII	Public Awareness and Community-based Conservation

SUNDAY, 10 June 2007

2:00 pm - 9:00 pm	Registration (Conservatory)
5:00 pm - 9:00 pm	Wine & Cheese Reception (Conservatory)

MONDAY, 11 June 2007 (Presentations in the Fortunoff Hall Ballroom)

8:00 am - 12:00 pm	Registration (Fortunoff Hall Foyer)	
10:00 am - 11:00 am	Opening Ceremonies -Dowling College Presidential Welcome (Fortunoff Hall Ballroom)	
11:00 am - 11:45 am		Keynote Address: Carl N. Shuster, Jr. and Koichi Sekiguchi, Limits on the Global Distribution of Horseshoe Crabs (Limulacea); Lessons Learned from Two Lifetimes of Observations: Asia and America
11:45 am - 1:00 pm		Lunch Break (River Café)
1:00 pm - 3:00 pm	Poster Session Set up (Conservatory) Chair: Martin Schreibman	Chang-Po Chen, Hwey-Iian Hsieh, and Chaolun Allen Chen Status, Assessment, and Perspective of the Crab Conservation Network in Taiwan
		Michael Millard, Ruth Carmichael, and Dave Smith Status and Assessment of <i>Limulus</i> Along the Western Atlantic
		Paul Shin, H. Y. Li, and S. G. Cheung Horseshoe Crabs in Hong Kong: Human Exploitation and Current Population Status
		Ming-Che Yang, Sakanan Plathong, Hui Huang, Suharsono, Inayat Hakim, Hwey-Iian Hsieh, Chang-Po Chen, Chaolun Allen Chen Phylogeography and Conservation Genetics of Horseshoe Crabs in the Indo-West Pacific
3:00 pm - 3:30 pm		Afternoon Break (Hunt Room)
3:30 pm - 5:00 pm	Session I: Population Status and Assessment Chairs: Dave Smith and Mike Millard	Hiroko Koike Population Genetics and Diet Analysis of the Horseshoe Crab in Japan
		Tim King, Michael Eackles, and Eric Hallerman Regional Differentiation and Sex-biased Dispersal Among Populations of the Horseshoe Crab <i>Limulus polyphemus</i>
		Jim Berkson An Integrative Approach to Horseshoe Crab Multiple Use and Sustainability
7:30 pm - 9:00 pm		Dinner (Fortunoff Hall Ballroom) UNESCO World Heritage Species: A Proposal - John Tanacredi

TUESDAY, 12 June 2007 (Presentations in the Fortunoff Hall Ballroom)

6:00 am - 8:00 am	Breakfast (River Café)		
8:00 am - 10:00 am	Poster Session (Conservatory; authors not required to be present) Chair: Martin Schreiber	Session II: Biology, Ecology, and Multi-species Interactions Chairs: Mark Botton, Jane Brockmann, Jaime Zaldivar-Rae	David Mizrahi and Kimberly Peters Horseshoe Crab-Shorebird Relationships in Delaware Bay
			H. Jane Brockmann Reproductive Behavior of Horseshoe Crabs
			Win Watson, S. Schaller, C.B. O'Donnell, and C.C. Chabot The Relationship Between Small- and Large-scale Movements of Horseshoe Crabs in the Great Bay Estuary and <i>Limulus</i> Behavior in the Laboratory
			Mark Botton The Ecological Importance of Horseshoe Crabs in Estuarine and Coastal Communities: A Review and Speculative Summary
10:00 am - 10:30 am			Morning Break (Hunt Room)
10:30 am - 12:00 pm			Jayant Kumar Mishra Horseshoe Crabs, Their Eco-Biological Status in India and the Necessity for Ecological Restoration
	Gretchen Ehlinger and Richard Tankersley Ecology of Horseshoe Crabs in Microtidal Lagoons		
	Jaime Zaldivar-Rae, Martha Rosales Raya, René Sapién Silva, and H. Jane Brockmann American Horseshoe Crabs, <i>Limulus polyphemus</i> , in Mexico: Open Possibilities		
12:00 pm - 1:00 pm	Lunch Break (River Café)		
1:00 pm - 3:10 pm	Poster Session (Conservatory; authors not required to be present) Chair: Martin Schreiber	Session III: Culture and Captive Breeding Chairs: Ruth Carmichael	Keiji Tsuchiya, Y. Ooshige, and T. Mitsueda A Multi-year Retrospective of Methods and Approaches to Horseshoe Crab Culture in Japan
			Jayant Kumar Mishra Larval Culture of <i>Tachypleus gigas</i> and Its Molting Behavior Under Laboratory Conditions
			Hong Shuigen, Zheng Maoshi, Hong Rongbiao, Lin Minzhen, Weng Zhaohong Protection and Artificial Incubation of Horseshoe Crab, <i>Tachypleus tridentatus</i>
			Carmela Cuomo Captive Spawning and Juvenile Culture of <i>Limulus polyphemus</i>
			Afternoon Break (Hunt Room)
3:10 pm - 3:40 pm			Martin Schreiber and C.Z. Zarnoch Aquaculture Methods and Observations of Juvenile Horseshoe Crabs <i>Limulus polyphemus</i>
3:40 pm - 5:00 pm			Ruth Carmichael, A. Clapp, Z. Sheller, A. Tong, E. Gaines, and I. Valiela Diet Composition of Juvenile Horseshoe Crabs: Implications for Growth and Survival of Cultured Stocks
			Michael Nolan and Stephen Smith Diseases, Maintenance, and Veterinary Care of Wild and Captive Horseshoe Crabs
6:00 pm - 7:00 pm	Poster Session - Authors Present (Conservatory)		
7:30 pm - 9:00 pm	Symposium Banquet with Speaker (Fortunoff Hall Ballroom) Sylvia Earle, Undersea Explorer		

WEDNESDAY, 13 June 2007 (Presentations in the Fortunoff Hall Ballroom)

6:00 am - 8:00 am	Breakfast (River Café)	
8:00 am - 10:00 am	Session IV: Habitat Requirements, Management, and Restoration Chairs: Carl N. Shuster Jr. and Chang-Po Chen	Carl N. Shuster, Jr. and Koichi Sekiguchi Habitat Considerations, Requirements
		Satoquo Seino Conservation Planning for Endangered Species of Horseshoe Crab in Terms of Geomorphology of Habitats and Life History
		Nancy Jackson and Karl Nordstrom Bay Beach Dynamics and Shore Protection Strategies
		Hwey-lian Hseh and Chang-Po Chen Horseshoe Crab: Flagship Species and Its Natural Habitat Protection in Taiwan
10:00 am - 10:30 am	Morning Break (Hunt Room)	
10:30 am - 12:00 pm	Session V: Biomedical Applications Chair: Jack Levin	William Burton and Frederick Kelly Identifying the Habitat and Distribution of Juvenile Horseshoe Crabs in Delaware Bay
		Richard Weber and Dave Carter Distribution of <i>Limulus</i> Egg Clusters on Intertidal Beaches in Delaware Bay
		Mark Botton and Tomio Itow The Effects of Water Quality on Horseshoe Crab Embryos and Larvae
12:00 pm - 1:00 pm	Lunch Break (River Café)	
1:00 pm - 3:15 pm	Session VI: Traditional Uses Chairs: Dave Smith and Annie Christianus	Thomas Novitsky Biomedical Applications of <i>Limulus</i> Amebocyte Lysate
		Lenka Hurton, Jim Berkson, and Stephen Smith Potential Causes of Post-Bleeding Mortality in Horseshoe Crabs
		Robert Barlow Vision in Horseshoe Crabs and Humans
		Jack Levin Clinical Applications of <i>Limulus</i> Amebocyte Lysate
3:15 pm - 3:45 pm	Afternoon Break (Hunt Room)	
3:45 pm - 4:45 pm	Session VII: Traditional Uses Chairs: Dave Smith and Annie Christianus	Annie Christianus and C. R. Saad Traditional Uses of Horseshoe Crabs in Malaysia and Thailand
		Gary Kreamer and Stewart Michels The History of Horseshoe Crab Harvest and Use in Delaware Bay
6:00 pm - 7:00 pm	Poster Session - Authors Present (Conservatory)	
7:30 pm - 9:00 pm	Dinner with Speaker (Fortunoff Hall Ballroom) David Rudkin, G. A. Young, and G. S. Nowlan Late Ordovician Horseshoe Crabs: New Evidence for the Ancient Ancestry of a Living Fossil	

THURSDAY, 14 June 2007 (Presentations in the Fortunoff Hall Ballroom)

6:00 am - 8:00 am	Breakfast (River Café)	
8:00 am - 8:50 am	Session VII Berkson	Jim Berkson (Facilitator) Panel Discussion on Conservation and Management
8:50 am - 9:00 am		Transition between sessions
9:00 am - 10:30 am	Poster Session: Take Down Posters (Conservatory) Chair: Martin Schreiber Session VIII: Public Awareness and Community-based Conservation Chairs: Glenn Gauvry and Michael Oates	Chikako Hisano Public Awareness and Community-based Conservation of the Horseshoe Crab at Saikai National Park in Nagasaki Prefecture Japan
		Chang-Po Chen, H.-L. Hsieh, H.-Y. Yeh, and P.-F. Lin Public Awareness and Community-based Conservation of the Horseshoe Crab <i>Tachypleus tridentatus</i> in Taiwan
		Satoquo Seino Coastal Policy and Community-based Conservation of the Horseshoe Crab in Japan
10:30 am - 11:00 am		Morning Break (Hunt Room)
11:00 am - 1:00 pm		Jayant Mishra Video and Discussion on the Conservation of Horseshoe Crab in India
	Carl N. Shuster, Jr. Conservation and Scientific Evaluation of the Health of Horseshoe Crab Populations	
	Cindy Etgen, Katy O'Connell, Gary Kreamer, and Michael Oates Green Eggs & Sand: A Collaborative Effort of Scientists, Teachers, Resource Managers and Stakeholders in Educating About the Atlantic Coast Horseshoe Crab Management Controversy	
	Glenn Gauvry Community Building an Integrated Approach to Horseshoe Crab Conservation	
1:00 pm - 1:30 pm		Closing Ceremony (Fortunoff Hall Ballroom)
1:30 pm - 11:00 pm		Lunch Break and Departure for New York City Dinner and Tour
Afternoon		Optional Activities (Inquire at Information Desk): Conservation Video Presentations (Kramer Science Center) Local Field Trips (TBD)