

Symposium
‘Bäcklund and Reciprocal Transformations
in
Modern Soliton Theory’
The Hong Kong Polytechnic University
May 24th – 25th 2011
Venue: AG710

PROGRAMME

Tuesday, May 24th

8:45 a.m. – 9:00 a.m.

Opening

Professor Liqun Qi

Head, Department of Applied Mathematics
The Hong Kong Polytechnic University

Professor Alex Wai

Vice-President, Research Development
The Hong Kong Polytechnic University

Session I (Chair: Nail Ibragimov)

9:00 a.m. – 10:00 a.m.

Opening Lecture

Professor Colin Rogers

The Hong Kong Polytechnic University
and

Australian Research Council & Centre of Excellence for
Mathematics and Statistics of Complex Systems,
University of New South Wales, Sydney, Australia

‘Bäcklund and Reciprocal Transformations. Integrable Connections’

10:00 a.m. – 10:45 a.m.

Professor Q.P. Liu

China University of Mining and Technology, Beijing, China
‘Super- Symmetric Reciprocal Transformations’

10:45 a.m. – 11:15 a.m.

Tea / Coffee Break

Session II (Chair: Sen-Yue Lou)

11:15 a.m. – 12:00 noon

Dr. Yehui Huang

Tsinghua University, Beijing, China

‘The New Integrable Deformations of Short Pulse and Sine Gordon Equations & Their Solutions’

12:00 noon – 12:45 p.m. **Professor Zixiang Zhou**
Fudan University, Shanghai, China
'Darboux Transformations for Two-Dimensional Elliptic Affine Toda Equations'

1:00 p.m. – 2:30 p.m. Lunch: (Invited Speakers)
PolyU Staff Club Western Restaurant
5/F, Communal Building, PolyU

Session III (Chair: Jon Nimmo)

2:30 p.m. – 3:15 p.m. **Professor Wolfgang Schief**
University of New South Wales, Sydney, Australia
'Integrable Structure in (Discrete) Shell Membrane Theory'

3:15 p.m. – 4:00 p.m. **Professor Xing-Biao Hu**
Chinese Academy of Sciences, Beijing, China
'Bilinear Bäcklund Transformations with Their Application'

4:00 p.m. – 4:30 p.m. Tea / Coffee Break

Session IV (Chair: Michael Stallybrass)

4:30 p.m. – 5:15 p.m. **Professor Sandra Carillo**
University of Rome, Italy
'Bäcklund Charts and Non-Commutative Soliton Solutions'

5:15 p.m. – 6:00 p.m. **Professor Sen-Yue Lou**
Shanghai Jiao Tong University, China
'Symmetries and Symmetry Reductions Related to Bäcklund Transformations'

7:30 p.m. Banquet:
Metropolis Harbour View Chinese Cuisine
Harbour Plaza Metropolis Hotel

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Wednesday, May 25th

Session I (Chair: Xing-Biao Hu)

9:00 – 9:45 a.m.

Professor Nail Ibragimov
Blekinge Institute of Technology, Sweden
‘A.V. Bäcklund, Lie-Bäcklund Symmetries and Conservation Laws’

9:45 a.m. – 10:30 a.m.

Dr. Jon Nimmo
University of Glasgow, Scotland, Great Britain
‘Bound States of the Discrete Schrödinger Equation and Solutions of the Discrete and Ultra Discrete KdV Equations’

10:30 a.m. – 11:00 a.m.

Tea / Coffee Break

Session II (Chair: Zixiang Zhou)

11:00 a.m. – 11:45 a.m.

Professor Junxiao Zhao
Graduate University of Chinese Academy of Science, Beijing, China
‘The Application of Pfaffians in Nonlinear Evolution Equations’

11:45 a.m. – 12:30 p.m.

Dr. Adam Szereszewski
University of Warsaw, Poland
‘From Two-Dimensional Surfaces to Solutions of Einstein's Field Equations’

Meeting Closure
Professor Colin Rogers

1:00 p.m. – 2:30 p.m.

Lunch: (Invited Speakers)
PolyU Staff Club Western Restaurant
5/F, Communal Building, PolyU