1–ST NON–ORTHODOX SCHOOL
ON
NONLINEARITY & GEOMETRY

—— Luigi Bianchi Days ——
September 21-28, 1995, Warszawa, Poland

Programme of the School:

Days for Newcomers (Sept. 21-26)

September 21
(Chairman: Decio Levi — Rome, Italy)

9.00–9.15	Opening Address	S. G. Rohoziński Warszawa
9.15–9.30	Idea of the School	A. Sym Warszawa
9.30–9.45	Useful information	D. Wójcik Warszawa
9.45–10.15	Inaugural lecture: Bianchi identities	A. Trautman Warszawa
10.15–11.45	Mathematics of solitons	A. Degasperis Rome, Italy
11.45–12.00	Coffee break	
12.00–13.30	Classical mechanics of solitons	O. Ragnisco Rome, Italy
13.30–15.00	*Lunch break*	
15.00–16.30	Panorama of soliton applications	R. Meinel Jena, Germany
16.30–17.00	Coffee break	
17.00–18.30	Early history of the soliton theory	M. Heyerhoff Greifswald, Germany

September 22
(chairman: Reinhard Meinel — Jena, Germany)

9.00–10.30	Differential geometry of submanifolds	V. Nesterenko Dubna, Russia
10.30–11.00	Coffee break	
11.00–12.00	Gallery of pseudospherical surfaces	A. Ovtchinnikov Moscow, Russia

12.00–13.00	Localized induction equation and pseudospherical surfaces	R. Perline Philadelphia, USA
13.00–15.00	*Lunch break*	
15.00–16.30	Riemann surfaces and theta functions	D. Korotkin Hamburg, Germany
16.30–17.00	Coffee break	
17.00–18.30	Solitons out of theta functions	J. Zagrodziński Warszawa

September 23
(chairman: Jerzy Zagrodziński — Warszawa)

9.00–10.30	Discrete solitons	D. Levi Rome, Italy
10.30–11.00	Coffee break	
11.00–12.30	Symmetries and solitons	J. Krasilschchik Moscow, Russia
12.30–14.30	*Lunch break*	
14.30–16.00	The Painleve' test: standard gun of integrability hunter	P. Goldstein Warszawa
16.00–17.00	Prehistory of 2–dimensional Toda system	Z. Popowicz Wrocław

September 25
(chairman: Colin Rogers — Sydney, Australia)

9.00–10.30	Solitons in General Relativity	G. Neugebauer Jena, Germany
10.30–11.00	Coffee break	
11.00–12.00	Solitons in Optics	H. Steudel Berlin, Germany
12.00–13.00	Holomorphic curves and Toda systems	A. Doliwa Warszawa
13.00–15.00	*Lunch break*	
15.00–16.00	The Toda equations and geometry of surfaces	L. M. Woodward Durham, England
16.00–17.00	Toda systems and W-algebras	A. Ovtchinnikov Moscow, Russia

September 26
(chairman: Vladimir Nesterenko — Dubna, Russia)

9.00–10.00	Darboux-Bianchi-Bäcklund transormations	J. Cieśliński Białystok

10.00–11.00	Geometry and the integrable Loewner system	C. Rogers Sydney, Australia
11.00–11.30	Coffee break	
11.30–13.00	Dupin hypersurfaces, isoperimetric hypersurfaces and integrable systems of hydrodynamic type	E. F. Ferapontov Moscow, Russia
13.00–15.00	*Lunch break*	
15.00–16.00	N-soliton surfaces	J. Cieśliński Białystok
16.00–17.30	Luigi Bianchi and his solitons	A. Sym Warszawa
17.30–18.00	Coffee break	
18.00–20.00	1. Special functions and differential geometry in the large 2. Geometry and physics of the discrete sine-Gordon equation (Video movies)	A. Bobenko Berlin, Germany

Days for Professionals (Sept. 27-28)

September 27
(Chairman: Heinz Steudel — Berlin, Germany)

9.00–9.30	Homological theory of recursion operators	J. S. Krasilshchik Moscow, Russia
9.30–9.50	Exact solutions, describing interaction of solitary waves of nonintegrable equations	K. R. Khusnutdinova Ufa, Russia
9.50–10.10	Differential geometry of non-local hamiltonian operators	E. Ferapontov Moscow, Russia
10.10–10.40	Complete integrability for Lagrangian dependent on acceleration	V. Nesterenko Dubna, Russia
10.40–11.10	Coffee break	
11.10–11.40	Flat centroaffinely homogeneous surfaces in 4-space	H. Liu Berlin, Germany
11.40–12.10	Affine differential geometry and soliton equations	C. Wang Berlin, Germany
12.10–12.50	Solitons and projectively flat affine surfaces	W. Jelonek Kraków
12.50–15.00	*Lunch break*	
15.00–15.30	Surfaces in $\mathcal{R}^3$ with prescribed curvature	J. Tafel Warszawa
15.30–16.00	From $2D$ integrable systems to self-dual gravity	M. Dunajski Łódź
16.00–16.20	Reductions and transformations of DE-s	S. Gburek

		Wrocław
16.20–16.40	Groups and nonlinear dynamical systems.	K. Kowalski
	Dynamics on the $SU(2)$ group	Łódź
16.40–17.00	Constant curvature metrics	S. Zadadayev
	and $SU(2)$ spectral problem	Moscow, Russia
17.00–17.30	Coffee break	
17.30–17.55	Symmetries of the Weierstrass	H. Gollek
	representation formula	Berlin, Germany
	for isotropic curves and minimal surfaces	
18.00–18.30	Bonnet surfaces and Painlevé equations	U. Eitner
		Berlin, Germany

September 28
(Chairman: Daniel Wójcik — Warszawa)

9.00–9.30	Non-autonomous Hénon-Heiles Systems	A. Hone
		Edinburgh, Scotland
9.35–10.00	Surfaces in $\mathcal{S}^4$	H. Fawley
		Durham, England
10.05–10.30	Isothermic surfaces of K-th order	P. B. Mucha
	and soliton theory	Warszawa
10.30–11.00	Coffee break	
11.00–11.40	Dmitrii Egorov: Mathematics and Religion	C. E. Ford
	in Moscow	St. Louis, USA
11.45–12.30	Connections, loops, tassels and webs	J. Lewandowski
		Warszawa
12.35–13.00	The Neumann type oscillatory	A. R. Prykarpatsky
	dynamical systems and their integrability	L'viv, Ukraina
	via MOMENT MAPS	
13.00–15.00	*Lunch break*	
15.00–15.30	Second order resonant systems in optics	H. Steudel
	and surfaces in $3D$	Berlin, Germany
15.25–15.55	Is drunken sinusoid a soliton solution?	J. Czyż
		Warszawa
16.00	Closing speech	A. Sym
		Warszawa