## **Schoen Geometry: The Gyroid**

Date: April 4-5, 2015

Venue: Room 104, A Hall (Faculty of Science)

Nara Women's University, Nara, Japan

Organizer: Tomonari Dotera (Kinki University) and Junichi Matsuzawa (Nara Women's University)

## **Program**

15:00-15:10 Yushu Matsushita (Nagoya University)

**Opening Address** 

15:10-15:20 Tomonari Dotera (Kinki University)

Introduction of Alan Schoen

15 : 20—16 : 10 Alan Schoen (Carbondale, USA)

Crystal structures and periodic minimal surfaces

16:30-17:00 Hideo Aoki (University of Tokyo)

Electronic structure of electrons on G-surface

## 17:00-17:50 **Poster Session with drinks**

Room 141, C Hall (Faculty of Science)

P1 Kei Iida (Kochi University)

The gyroid in nuclear pasta

P2 Hiroto Shoji (Kyoto Prefectural University of Medicine)

Self-organized patterns in reaction-diffusion systems

P3 Takahiro Ichikawa (Tokyo University of Agriculture and Technology)

Construction of Gyroid Nanostructures through Self-Organization of

Well-Designed Liquid-Crystalline Molecules

P4 Atsushi Takano (Nagoya University)

Microphase-separated structures constructed from ABC/ABA/CBC triblock copolymer blends

P5 Yusuke Asai (Nagoya University)

Creation of Cylindrical Morphologies with New Self-assembly Manners

from ABC Block Terpolymer Blends

P6 Megumi Yoshida (Nagoya University)

Construction of co-continuous microphase-separated structures

by block blends with hydrogen bonding interaction

P7 Katsuhiro Yamamoto (Nagoya Institute of Technology)

Ordered Bicontinuous Double Diamond and Gyroid Structures

in A-B/A Block Copolymer and homopolymer Blend

P8 Tomonari Dotera and Junichi Matsuzawa (KU, NWU) Hard spheres on the gyroid surface

P9 Yusuke Takahashi and Tomonari Dotera (KU) Hard spheres on the primitive surface

P10 Hideaki Tanaka and Tomonari Dotera (KU) Hard spheres on the diamond surface

## 18:00-20:00 **Banquet**

15:30-15:40 Alan Schoen

Closing Remarks

April 5 (Sun)	
9:30-10:00	Wayne Rossman (Kobe University)
	Discrete triply periodic minimal surfaces
10:00-10:20	Masashi Yasumoto (Kobe University)
	Discretized minimal surfaces
10:20-10:50	Udo Hertrich-Jeromin (Vienna University of Technology)
	A Moebius geometer's view on minimal surfaces
11:10-11:40	Miyuki Koiso(Kyushu University), Toshihiro Shoda (Saga University)
	and Paolo Piccione (University of Sao Paulo)
	On bifurcation and local rigidity of triply periodic minimal surfaces in R <sup>3</sup>
11:40-12:10	Shoichi Fujimori (Okayama University)
	Limits of triply periodic minimal surfaces of genus 3
12:10-13:10	Lunch
13:10-13:40	Yasuhiro Sakamoto (Osaka Univeristy)
	Gyroid Structure in Mesoporous Silica System
13:40-14:10	Nobuhisa Fujita (Tohoku University)
	Symmetry of electronic states constrained on periodic minimal surfaces
14:30-15:00	Shoichi Kutsumizu (Gifu Univeristy)
	Molecular Arrangement in Gyroid Phase of Thermotropic Cubic Mesogen BABH
15:00-15:30	Ken'ichiro Nakazato (Tokyo University of Science)
	Gyroid morphology in subsaturation nuclear matter