

In Memoriam

Kiyoshi Iséki : 29 June 1919 - 14 March 2011

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Dedicated to the memory of Professor Kiyoshi Iséki



Taken in Iséki's seminar at Institute For Advanced Studies - University of São Paulo, Brazil, on January 3, 1993

We feel deep grief at the news that Kiyoshi Iséki passed away on March 14, 2011. He was one of the outstanding mathematicians in the second half of the 20th century. Kiyoshi Iséki was interested in several branches in mathematics and published more than three hundreds papers in these fields; logic, combinatorics, general algebra, group theory, topology, functional analysis, non-Greek mathematics and mathematical education. Kiyoshi Iséki was also interested in all activities contributed for mathematical community; attending conferences, symposiums and seminars, and editing the journals. In particular, Kiyoshi Iséki also served as the president of the “International Society for Mathematical Sciences (ISMS)”, one of whose activities of the ISMS is to publish the journal “Scientiae Mathematicae Japonicae (SCMJ)”. For the above reason, International Society for Mathematical Sciences had a plan to publish a special issue of SCIENTIAE MATHEMATICAE JAPONICAE in memory of Kiyoshi Iséki. International Society for Mathematical Sciences then called for papers for the special issue in Kaiho(Japanese) in November 2011. Then twenty seven authors contributed their articles to this issue. The contents of the articles are as follows:

Reminiscence

“Memories of Professor Kiyoshi Iséki” by *M. Nakamura*.

General Logic

“An Introduction to the Theory of Curry Systems” by *J.M. Abe*.

Combinatorics

“On the Size of Minimal Hales-Jewett Sets” by *N. Hindman and H. Jordan*.

Lattices, Semigroup and Loops

“On Triangle Constructive Trices” by *K. Horiuchi*.

“Filters in Non-commutative Residuated Lattices” *by M. Kondo.*

“The Strong Endomorphism Kernel Property in Distributive Double P -Algebras”
by T. S. Blyth, J. Fang and L. Wang.

“BCK-Algebra and Non-Greek Mathematics” *by S. Funakoshi.*

“A Single Axiom for Boolean Algebra” *by S. Tanaka.*

General Algebraic System

“Tolerances on Mono-unary Algebras with Long Pre-periods”
by C. Ratanaprasert and K. Denecke.

“Notes on Some Generalized Convex Sets” *by A. B. Romanowska.*

Computational Number Theory

“On a Number Theoretic Problem by Blanc”
by K. Kitahara, T. Shimotomai and S. Nagata.

Group Theory and Generalizations

“On the Algebraic structure of Dyson’s Circular Ensembles” *by J. D. H. Smith.*

Topological Spaces and Related Topics

“The work of Professor Kiyoshi Iséki on topology” *by Y. Hattori.*

“Preservation of Continuity” *by S. A. Naimpally and J. F. Peters.*

Real Functions

“Some Inequalities via Convex Functions with Application : A Survey”
by Y. C. Li. and C. C. Yeh.

Functional Analysis and Related Topics

“On Certain Normed Subspaces of Hardy Spaces” *by M. Valdivia.*

“ Φ - K Subgradients of Vector-Valued Functions” *by D. P. Rolewicz and S. Rolewicz.*

Non-Greek Mathematics

“A Visit to the Weak Elementary Euclidean Pasch Free Geometry”
by C. Omoto and K. Kitahara.

Mathematical Education

“The Chinese Learner, the Japanese Learner, the Asian Learner
-Inspiration for the (Mathematics) Learner” *by N. Y. Wong.*

Kiyoshi Iséki had one Ph.D student and six M.Sc.students who went into academic profession. Finally, the list of the selected published papers and books are shown. They are based on the data of the scientific work of Kiyoshi Iséki in the book[1] by Abe and Tanaka and the data of MathSci Net. We would like to express a hearty gratitude to the president Prof. Yoshinobu Teraoka of the ISMS, the staff Mr. Kiyoo Mizuochi, Ms. Fumiko Otsuki and Mr. Takuma Yamashita of ISMS and the authors of the articles for publishing this special issue dedicated to the memory of Kiyoshi Iséki. Furthermore, we are thankful to Ms. Yamamoto, Mr. Tsukamoto, Mr. Harada, Mr. Okuno, Mr. Shimada and Mr. Taguchi for arranging every accepted article in the ISMS style. We sincerely hope that the readers will enjoy a part of Kiyoshi Iséki’s mathematical world by reading the articles in this issue!

*List of Principal Publications of Kiyoshi Iséki**Published Papers*

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June 10, 2013

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