日中科学技術交流協会 理事長 有山正孝殿

> 財団法人 日本数学会 関孝和三百年祭記念数学史国際会議 組織委員会 小松彦三郎

関孝和三百年祭記念数学史国際会議ポスター送付について

関孝和三百年祭記念数学史国際会議につきましては、多大なるご支援を賜り 厚く御礼申し上げます。

この度、日本数学会及び日本数学史学会は江戸中期の和算家、関孝和の没後 三百年を記念して数学史国際会議を8月25日~31日の予定で開催いたします。

この会議は、関孝和とその周辺の数学者たちの業績を辿りながら、同時代の 中國をはじめ世界の数学を考察する、国際会議としては初めての試みであり、 多くの方々のご参加を期待いたしております。

つきましては、同封のポスター及びプログラムを作成いたしましたので、貴 社周辺の方々へお知らせいただければ誠に幸甚に存じます。



屬秀柳三百年祭副念

鄉等別園鄉代禮

International Conference on Hisotory of Mathematics in Memory of Seki Takakazu(1642?-1703)

AUSUST 25 - 31, 2008

The Memorial Hall on the 17th floor, Kagurazaka Ist Sa.

Invited Speakers

Mongoria Normal Univ.), Guo Shuchun 郭古春 (History of Natural Science CAS), Ha Huy Khoai (Inst. Math. Karine Chemla (CNRS France), Feng Lisheng 馮立昇 (Tsinghua Univ. Beijing), Guo Shirong 郭世栄 (Inner Eniv. of Sci. & Tech. Taiwan), Kazahara Hideki 川原秀城 (Univ. Fokyo), Kim Yong Woon 金容雲 (Hanyang Hanoi), Ikeyama Setsuro 池川説郎 (Kyoto Sangyou Univ), Jochi Shigeru 城地茂 (National Kaohsiung First Univ. Seoul), Eberhard Knobloch (Technische Univ. Berlin), Kobayashi Tatsuhiko 小林龍彦 (MaebashiInst.

Hideyuki 真島秀行 (Ochanomizu Univ. Tokyo), Matumoto Takao 松本堯生 (Hiroshima Univ.), Morimoto Mitsuo Tech.), Komatsu Hikosaburo 小松彦三郎 (Univ. Tokyo), Li Wenlin 李文林 (Math. & Systems Sci. CAS), Qu Anjing 曲安京 (Northwest Univ., Xi'an), Sato Ken'ichi 佐藤健一 (Wasan Inst. Tokyo), Sugimoto Toshio 森本光生 (Tokyo), Muroi Kazuo 室井和夫 (Kawai Juku Sendai), Ogawa Tsukane 小川東 (Yokkaichi Univ.), Liu Dun 劉鈍 (History of Natural Science CAS), Luo Jianjin 羅見今 (Inner Mongoria Normal Univ.), Majima K. Volkov (Tsinghua Univ. Taiwan), Xu Zelin 徐澤林 (Tianjin Normal 杉本敏夫 (Tokyo), Takenouchi Osamu 竹之内脩 (Osaka), Tsuchikura Tamotsu 土倉保 (Sendai), Alexei

There will be some additional 30 minutes lectures. All lectures are in English except for the Introductory

Lectures, and Prof. Kim's lecture in Japanese on 25th, and some lectures in Japanese on 31st.

Main Topics

and especially those who lived in Kyoto and Osaka. Contemporary mathematics in China and vicinities. influenced Seki. Main achievements by Seki Takakazu and his pupils Takebe brothers. Seki's surroundings Seki Takakazu, his life and bibliography. Chinese mathematics and calendrical science which may have Contemporary mathematics in Europe. Influence of European mathematics on China and Japan. Comparison with ancient mathematics. Raisons d'etre of these mathematics.

Organizers

sponsorship of the Inoue Foundation for Science, the Tokyo Club and the Japan-China Science and Technology Mathematical Society of Japan and the Society of History of Japanese Mathematics host the Conference under the Exchange Association. It is also supported in part by JSPS Grants-in-Aid for Scientific Research (C) No. 20540107.

Organizing Committee : Henk Bos (Utrecht), Karine Chemla, Annick Horiuchi (Paris), Kawahara Hideki, Eberhard Knobloch, Komatsu Hikosaburo, Liu Dun and Yano Michio (Kyoto).

Local Committee : Masuda Kazuhiko, Sato Ken'ichi, Sekine Keitaro and Shimizu Katsuhiko.

Registration is required to participate in all activities of the conference and 'o receive the Proceedings later. Please apply in advance on on cite, one may attend lectures without registration. URL http://i-wasan.jp/seki/ and pay the registration fee 20,000yen at the registration desk in the Hall. However, if a vacancy is available

Program Wichenhow AS rangua

August 25, Monday Registration 9:00-12:00, 12:30-17:00 Introductory Lectures in Japanese 13:00-13:50 佐藤健一 Sato Ken'ichi 吉田光由の『塵劫記』の紹介 (On Yoshida Mitsuyoshi's "Jinkoki") 14:00-14:50 川原秀城 Kawahara Hideki 九章算術 (The Nine Chapters of Mathematical Procedures) 15:00-15:50 森本光生 Morimoto Mitsuo 算学啓蒙について (On Zhu Shijie's "Suanxue Qimeng") Lecture in Japanese Madiematics in the Song and Yuan Dynastics, "Axis of Mathematics 10:00-16:10 金容雲 Kim Yong Woon 韓日傳統数学の比較研究 (A comparative study on traditional mathematics of Korea and Japan) 18:00 Snack August 26, Tuesday 9:00-12:00, 12:30-17:00 Registration 9:30-10:20Opening Ceremony 10:30-11:20 Majima Hideyuki 真島秀行 Amarika para sebenggan A -- smill) si sebenggan A Seki Takakazu, his life and bibliography 11:30-12:20 Jochi Shigeru 城地茂 Seki Takakazu's biography and "Kanjo-gata Wasan Era" (1674–1780) 14:00-14:50 Eberhard Knobloch Leibniz' theory of elimination and determinants 15:00-15:50 Komatsu Hikosaburo 小松彦三郎 Algebra, elimination theory and "大成算經 Complete Books of Mathematics" 16:00-16:50 Matsumoto Takao 松本尭生 "Sanpo-Hakki 算法発揮", the first published book on determinants, and the related

works by Seki and others

August 27, Wednesday

9:00-12:00, 12:30-17:00 Registration

9:30-10:20

Karine Chemla

Remarks on the polynomial algebra of the Song-Yuan dynasties and its continuation in Edo Japan

10:30-11:20

Guo Shuchun 郭書春

A study on "The Nine Chapters of Mathematical Procedures" and Liu Hui's mathematical theory

11:30-12:20

Muroi Kazuo 室井和男

Babylonian number theory and trigonometric functions: Trigonometric table and Pythagorean triples in the mathematical tablet Plimpton 322

14:00-14:50

Guo Shirong 郭世栄

Mathematics in the Song and Yuan Dynasties, "Axis of Mathematical Methods"

15:00-15:50

Takenouchi Osamu 竹之内脩

"Katsuyo Sanpou 括要算法", résumé of works on mathematics of Seki Takakazu

16:00-16:50 Sugimoto Toshio 杉本敏夫

Seki Takakazu's measuring process of the volume of solids derived from spheres

August 28, Thursday

9:00-12:00, 12:30-17:00 Registration

9:30-10:20

Liu Dun 劉鈍

Archimedes in China — Archemedes and his works in Chinese literature of the Ming and Qing dynasties

10:30-11:20

Kobayashi Tatsuhiko 小林龍彦

Influence of European mathematics on pre-Meiji Japan

11:30-12:20

Feng Lisheng 馮立昇

Mathematics exchanges between China and Japan in modern times (1850's-1920's)

14:00-14:25

Kim Yong Woon 金容雲

Korean and Japanese creativity in traditional mathematics

14:30-14:55

Tsuchikura Tamotsu 土倉保

"Ruiyaku-Jutsu 累約術", the method of successive divisions

15:30-17:00

Excursion

18:00-19:30

Banquet

August 29, Friday

9:00-12:00, 12:30-17:00 Registration

9:30-10:20

Li Wenlin 李文林

(Implications of mathematics in East Asia to the present mathematics and education)

10:30-11:20

Luo Jianjin 羅見今

Ming Antu and his power series expansions

11:30-12:20

Ikeyama Setsuro 池山説郎

Power series expansions in India around 1400

14:00-14:50

Ogawa Tsukane 小川東

Theories of circles originated by Seki and Takebe Katahiro

15:00-15:50

Morimoto Mitsuo 森本光生

Takebe Katahiro's algorithm in order to find the circular arc length

16:00-16:25

Yokotsuka Hiroyuki 横塚啓之

"Kohai-Setsuyaku-Shū 弧背截約集" regarded as a work of Takebe Katahiro

August 30, Saturday

9:00-12:00, 12:30-17:00 Registration

9:30-10:20

Qu Anjing 曲安京

How did Chinese deal with a scientific problem? — A case study of the solar eclipse theory

10:30-11:20

Ha Huy Khoai

On the history of mathematics in Vietnam

11:30-12:20

Alexei K. Volkov

(Vietnamese mathematics)

14:00-14:50

Xu Zelin 徐澤林

Standing on the shoulders of a giant — Influence of Seki Takakazu on Takebe Katahiro's mathematical achievement

15:00-15:25

Ozaki Humiaki 尾崎文秋

Takakazu Seki's calculation method of solids of revolution

15:30-15:55

Hujii Yasuo 藤井康生

16:00-16:25

Ohashi Yukio 大橋由紀夫

16:30-17:00

Closing Celemony

August 31, Sunday

9:00-12:30 Registration

Lectures in Japanese

9:30 - 9:55

西田知己 Nishida Tomomi

10:00-10:25

田辺寿美枝 Tanabe Sumie

"Senkan-jutsu 翦管術", the solution of simultaneous congruence equations

	25 日	26 日	27日	28日	29日	30日	31 日
9:30	20 H	開会式	Chemla	劉鈍	李文林	曲安京	西田/田辺
10:30		真島	郭書春	小林	羅見今	Khoai	
11:30	The	城地	室井	馮立昇	池山	Volkov	
13:00	佐藤					AND THE PARTY OF	· Pura
14:00	川原	Knobloch	郭世栄	金/土倉	小川	徐澤林	
15:00	森本	小松	竹之内	15:30	森本	尾崎/藤井	· 通信 10 10 10 10 10 10 10 10 10 10 10 10 10
16:00	金	松本	杉本	遠足	横塚/	大橋/閉会	
18:00	軽食			バンケ			