

7. COMMISSION DE LA MECANIQUE CELESTE

Report of Meetings

PRESIDENT: Y. Hagihara.

SECRETARY: W. J. Eckert.

Most of the first session was devoted to the business meeting. The Colloquium on The Use of Electronic Computers for Analytical (not numerical) Developments in Celestial Mechanics constituted sessions 2, 3, 4 and part of 5. A brief review of the Paris Colloquium was presented at session 5. Technical communications were presented at sessions 1, 5 and 6. Dr Morando acted as interpreter at all sessions.

Business Meeting

The President read the names of members deceased since the last General Assembly: D. Brouwer, W. W. Heinrich, I. G. Izsak, G. Lemaître, E. L. Martin, M. F. Subbotin.

The President's recommendations for the composition of the Commission for the next three years were read and approved:

President: W. J. Eckert

Vice President: G. N. Dubošin

Organizing Committee: G. A. Čebotarev, Y. Hagihara, J. Kovalevsky, Y. Kozai, P. J. Message, K. Stumpff, V. G. Szebehely, F. Zagar.

New Members: G. Bozis, A. Deprit, I. V. Galibina, G. Giacaglia, P. Goldreich, C. L. Goudas, J. D. Hadjidemetriou, W. M. Kaula, B. Marsden, J. Meffroy, B. Morando, Sh. G. Šaraf, R. Sibahara, E. Stiefel, J. P. Vinti.

Consulting Members: V. I. Arnold, S. P. Diliberto, D. G. King-Hele, J. Moser, I. D. Žongolovič.

The resignation of V. V. Michkovitch from the Commission was reported.

The President reviewed the financial and clerical problems of the Union caused by the rapid growth of astronomy and the necessity for brevity in the Proceedings.

Minor corrections to the Draft Report were submitted to the President; corrections will be made in volume XIII A of the IAU Transactions.

PARIS COLLOQUIUM

The colloquium, The Gravitational Problem of n Bodies, sponsored by Commission 7 and held in Paris August 16–18 was described briefly by Drs Contopoulos and Szebehely. The material presented at the colloquium is scheduled for publication in March 1968 in the Bulletin Astronomique.

PRAGUE COLLOQUIUM

The program for the colloquium on the Use of Electronic Computers for Analytical Developments in Celestial Mechanics was as follows:

- (1) M. S. Davis: Programming systems available for analytical developments.
- (2) J. Kovalevsky: Revue de quelques méthodes de programmation de calculs littéraires de mécanique céleste.
- (3) A. Deprit: Lindstedt's series on a computer.
- (4) J. Chapron and L. Ghertzman: Problèmes pratiques posés par la programmation d'une théorie littérale du mouvement de la lune.
- (5) P. Sconzo: The Formac language and its application to celestial mechanics.
- (6) G. B. Ephimov: The construction of the limit solution in the low-thrust optimal acceleration problem.

The editor of the *Astronomical Journal* has agreed to publish papers from this colloquium in a single issue of the *Journal* during the first half of 1968.

TECHNICAL SESSIONS

The following communications were presented at the sessions for papers:

G. Giacaglia: Secular variation in the motion of Trojan asteroids.

A. Deprit: Brown's conjecture concerning the long period Trojan orbits.

Y. Kozai: Stationary solutions for Hestia-type asteroids in 3-dimensional restricted problem of three bodies.

C. Oesterwinter: Planetary elements for 300000 years.

D. Eckhardt: The use of a computer to develop solutions for the physical libration of the Moon.

W. J. Klepczynski: The mass of Jupiter as derived from the motion of 52 Europa.

D. A. O'Handley: The determination of the mass of Jupiter from the motion of 65 Cybele.

H. G. Hertz: The mass of Vesta.

H. G. Walter: Conversion of osculating elements into mean elements.

E. Rabe: Periodic Trojan librations of the 12:1 commensurability type.