

the physio-pathology of intersex dealing with cytodifferentiation of fetal gonads, polyploidy and sex phenotype, sex-chromosome mosaicism, and placental enzymes using modern techniques of electron microscopy, tissue culture, and karyotype analysis.

Sophisticated instrumentation and new experimental approaches are now available such as experimental hybridization, inter-species egg transfer, injection with virus or bacteria, interference with the function of the gonads or the placenta, microsurgery, cell fusion, fetal surgery, placenta surgery, tissue and organ culture, teratogenic drugs, overcrowding in utero by superovulation or by egg transfer, and immunological and cytogenetic techniques. Therefore, it is hoped that subsequent conferences on reproductive failure will deal with instrumentation and methodology of reproductive biology. Standardized terminology to be used for reproductive physiology, biochemistry, and immunology would also be highly desirable in order to facilitate interdisciplinary communication.

The second symposium, to be held 31 July to 4 August 1967 at Washington State University, will be limited to

a specific topic, "The mammalian oviduct." There have been numerous conferences on the ovary, the uterus, the placenta, and so forth, but there has yet been little emphasis on the biology and method of studying the mammalian oviduct. Sufficient work has now been done and there is enough interest that an excellent symposium could be developed. The program chairmen are E. S. E. Hafez of Pullman and R. J. Blandau of Seattle.

The proceedings of the conference, edited by Kurt Benirschke, are being published by Springer, New York. The proceedings include: *Overall Problem in Man* (A. T. Hertig); *Overall Problem in Domestic Animals* (E. S. E. Hafez); *Cytogenetics of Abortions* (D. H. Carr); *Enzyme Defects* (D. Y. Y. Hsia); *Chemomechanics of Implantation* (B. G. Böving); *Steroid Hormones* (K. J. Ryan); *Protein Hormones* (J. B. Josimovich); *Prolonged Gestation* (P. B. Kennedy); *Ovulation and Egg Transport* (R. J. Blandau); *Experimental Hybridization* (M. C. Chang and J. L. Hancock); *Hybrid Sterility and Fertility* (K. Benirschke); *Zebroids* (J. M. King); *Human Malformations* (J. Warkany); *Experimen-*

tal Teratology (V. H. Fernald); *Malformations Due to Genetic Mechanisms* (F. B. Hutt); *Bacterial Infections* (A. B. Hoerlein); *Fetal Infections in Man* (S. G. Driscoll); *Toxoplasmosis* (J. K. Frenkel); *Fungus Infections* (C. G. Bridges); *Virus Infections* (D. N. Meadearis); *Ontogeny of Immune Response* (A. M. Silverstein); *Immunologic Interactions between Mother and Fetus* (M. Galton); *Reproduction and Failure at High Altitude* (J. Metcalfe); *Sterility and Social Interactions in Mammals* (R. L. Snyder); *Immobilization of Large Animals* (T. H. King); and a Placental Pathology symposium of many contributors.

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AAAS Symposium Volume

MAN, CULTURE, AND ANIMALS: THE ROLE OF ANIMALS IN HUMAN ECOLOGICAL ADJUSTMENTS

Editors: Anthony Leeds and Andrew P. Vayda
304 pp., illus., bibliog., indexes, August 1965. Price: \$8.00. AAAS members' cash orders: \$7.00.

The volume is based on a symposium held at the AAAS meeting in Denver, December 1961. It presents case studies of the relationships among human populations, the animals they use for food or food-getting, the plants significant for maintaining both animals and men, and the socio-cultural usages by which plants, animals, and men are linked in ecosystems.

Anthropologists and geographers discuss animal characteristics, populations dynamics, diets, and other ecosystem variables, including culture. The case material is used for a unique effort to rethink the logic of functional analysis in anthropology in terms of general systems approaches.

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