British Society for Developmental Biology

GLASGOW MEETING **1st - 4th SEPTEMBER, 1976**

SYMPOSIUM ON VERTEBRATE LIMB AND SOMITE MORPHOGENESIS

The 33rd Meeting of the Society, jointly sponsored by the International Society of Developmental Biologists, will be held in the Department of Zoology, University of Glasgow. The Symposium programme has been arranged by Drs. M. Balls, D. A. Ede and J. R. Hinchliffe and will be published by the Cambridge University Press in Spring 1977.

Lectures will take place in the Main Lecture Theatre of the Department of Zoology. Arrangements will be made for the presentation of material, relevant to the Symposium, in the form of **Poster Demonstrations.**

Accommodation will be provided in the University's Queen Margaret Hall, Bellshaugh Road, about 10 minutes walk from the University. With numerous restaurants and pubs as well as the University Refectory in the vicinity, no arrangements have been made for lunch.

Coffees and **Teas** will be available in the Department of Zoology. **Dinner** will be provided at Queen Margaret Hall.

There will be an **Excursion** in the afternoon of Friday, 3rd September, to Culzean Castle, which was the official residence in Britain of the late President Eisenhower. The **Conference Dinner** will be held at Culzean Castle that evening.

Maps and further details will be sent to those who register for the meeting. Cars may be parked at Queen Margaret Hall and, by permit, at the University.

Please return completed Booking Forms, with appropriate remittance, as soon as possible, but **not later than 26th July** to :

Dr. Donald A. Ede
Developmental Biology Building
124 Observatory Road
Glasgow G12 9LU, Scotland
(Telephone No. 041-339-1105)

PROGRAMME

Wednesday, 1st September

Chairman: **DONALD A. EDE (Glasgow)**

09.15 - 09.30 **OPENING REMARKS BY CHAIRMAN**

09.30 - 10.15 J. W. SAUNDERS (Albany, U.S.A.)
"The experimental analysis of chick limb bud development".

10.15 - 10.45 J. A. MacCABE (Tennessee, U.S.A.)
"*In vitro* analysis of limb bud polarising activity".

10.45 - 11.15 **COFFEE**

11.15 - 11.45 M. KIENY (Grenoble, France)
"Proximo-distal pattern formation in chick limb development".

11.45 - 12.15 R. L. SEARLS (Philadelphia, U.S.A.)
"The effect of dorsal and ventral limb ectoderm on normal limb development".

12.15 - 12.45 M. P. PAUTOU (Grenoble, France)
"Dorso-ventral axis determination in the development of the chick foot".

12.45 - 13.00 **GENERAL DISCUSSION**

13.00 - 14.30 **LUNCH**

Chairman: **J. W. SAUNDERS (Albany, U.S.A.)**

14.30 - 15.00 C. TICKLE and D. SUMMERBELL (Middlesex Hospital, London and Otago, N.Z.)
"Pattern formation along the antero-posterior axis of the chick limb bud".

15.00 - 15.30 L. WOLPERT and G. SHELLSWELL (Middlesex Hospital, London)
"The pattern of muscle development in the chick wing".

15.30 - 16.00 J. F. FALLON (Wisconsin, U.S.A.)
"Studies of cell death accompanying the freeing of the digits in the limb of birds and mammals".

16.00 - 16.30 **TEA**

16.30 - 17.00 R. AMPRINO (Bari, Italy)
"Morphogenetic interrelationships between ectoderm and mesoderm in chick embryo limb development".

17.00 - 17.30 **GENERAL DISCUSSION**

Thursday, 2nd September

Chairman: **L. WOLPERT (London)**

09.00 - 09.30 U. K. ABBOTT (Davis, U.S.A.)
"Abnormal pattern formation in mutant chick limb development".

09.30 - 10.00 J. M. CAIRNS (Roswell Park, U.S.A.)
"Growth of normal and *talpid*[2] chick wing buds: an experimental analysis".

10.00 - 10.30 D. M. HUNT (London) and D. R. JOHNSON (Leeds)
"Studies on the biochemistry of cartilage in achondroplastic mice".

10.30 - 11.00 **COFFEE**

11.00 - 11.30 J. LEWIS (Middlesex Hospital, London)
"Models of chick limb development".

11.30 - 12.00 O. K. WILBY (Glasgow)
"A unified model for somitogenesis and the control of limb growth and development".

12.00 - 12.15 **GENERAL DISCUSSION**

12.15 - 13.00 **ANNUAL GENERAL MEETING**

13.00 - 14.15 **LUNCH**

Chairman: **D. R. NEWTH (Glasgow)**

14.15 - 14.45 S. V. BRYANT (Irvine, U.S.A.)
"Pattern regulation in amphibian limbs".

14.45 - 15.15 S. B. SIMPSON (Northwestern, U.S.A.) absent summarised by M Balls
"Limb regeneration and nerve supply".

15.15 - 15.45 D. L. STOCUM (Illinois, U.S.A.)
"Control mechanisms in limb regeneration".

15.45 - 16.15 **GENERAL DISCUSSION**

16.15 - 16.45 **TEA**

16.45 - 17.15 A. RAYNAUD (Sannois, France)
"The role of somites (cellular contribution and morphogenetic effects) in the early morphogenesis of the limbs in reptiles".

17.15 - 17.45 S. GOEL (Poona, India)
"Reptile limb morphogenesis".

17.45 - 18.00 **GENERAL DISCUSSION**

Friday, 3rd September

Chairman: **R. L. SEARLS (Philadelphia, U.S.A.)**

09.00 - 09.30 D. P. G. WILLIAMS (London)
"Hormonal regulation of post-natal limb growth in mammals".

09.30 - 10.00 P. F. GOETINCK (Storrs, U.S.A.)
"Controls in the acquisition and maintenance of chondrogenic expression".

10.00 - 10.30 R. O. KELLEY (New Mexico, U.S.A.)
"Differentiation of extracellular matrix during development of the vertebrate limb".

10.30 - 11.00 **COFFEE**

11.00 - 11.30 A. I. CAPLAN (Case Western Reserve, U.S.A.)
"The molecular control of cartilage and muscle development in the avian limb".

11.30 - 12.00 D. A. EDE, P. COLQUHOUN, O. P. FLINT and O. K. WILBY (Glasgow)
"The development of precartilage condensations in limb-bud mesenchyme of normal and mutant embryos *in vivo* and *in vitro*".

12.00 - 12.30 J. R. HINCHLIFFE (Aberystwyth, U.K.)
"The chondrogenic pattern in vertebrate limb morphogenesis: a problem of development *and* evolution".

12.30 - 13.00 **GENERAL DISCUSSION**

13.00 **LUNCH**

Buses depart for Culzean Castle from University Avenue.

Saturday, 4th September

Chairman: **ANNE McLAREN (London)**

09.15 - 09.45 B. MENKES and S. SANDOR (Timisoara, Roumania)
"Somitogenesis: regulation potencies, sequence determination and primordial interactions".

09.45 - 10.15 P. SENGEL (Grenoble, France)
"Developmental fate of somitic mesoderm in the chick embryo".

10.15 - 10.45 **COFFEE**

10.45 - 11.15 J. COOKE (M.R.C. Mill Hill, London)
"The control of somite number".

11.15 - 11.45 R. BELLAIRS (University College, London) and P. A. PORTCH (London)
"Somite formation in the chick embryo".

11.45 - 12.15 O. P. FLINT (Glasgow)
"Cell interactions in the developing axial skeleton in normal and mutant mouse embryos".

12.15 - 12.45 **GENERAL DISCUSSION**