

Reports of Meetings

MEETING OF 1970 OCTOBER 9

(in the Scientific Societies Lecture Theatre,
23 Savile Row, London W.1)

Professor Sir Bernard Lovell, President, in the Chair

The election by the Council of the following Fellows was duly confirmed:

Peter H.Ashenurst, 81 Eastbourne Avenue, Hamilton 22, Ontario, Canada (proposed by K.E.Chilton);

*John Richard Baker, Nuffield Radio Astronomy Laboratories, Jodrell Bank, Macclesfield, Cheshire (proposed by F.G.Smith);

Derrick Stanley Box, 11 Park Court, Hampton Wick, Surrey (proposed by E.Lawler);

Brian William Darracott, School of Physics, The University, Newcastle upon Tyne, NE1 7RU (proposed by R.W.Girdler);

William Robert Davey, Joint Institute for Laboratory Astrophysics, University of Colorado, Boulder, Colorado 80302, U.S.A. (proposed by J.P.Cox);

Kurtiss J.Gordon, National Radio Astronomy Observatory, Edgemont Road, Charlottesville, Virginia 22901, U.S.A. (proposed by M.A.Gordon);

Harry Haysham, 35 North Drive, Cleadon, near Sunderland, Co. Durham (proposed by F.J.Acfield);

James Leonard Lindsell, 39 Beacon Hill, Dormansland, Lingfield, Surrey (proposed by P.Ringsdore);

William Edward Moser, 19 Hurlstone Avenue, Hurlstone Park, Sydney, N.S.W., Australia 2193 (proposed by H.Wood);

Robert F.Turner, Flat 4, York Court, Nizelle Avenue, Hove, BN3 1PQ, Sussex (proposed by P.Ringsdore);

Dennis Arthur Wiltshire, 11 Elderberry Walk, Westbury on Trym, Bristol, BS10 6NW (proposed by F.Barrow).

The election by the Council of the following Junior Members was duly confirmed:

Martin Cohen, The Observatories, Madingley Road, Cambridge (proposed by D.W.Dewhirst);

Guy Nicholas Howard Fennimore, 42 Dunster Road, West Bridgford, Nottingham, NG2 6JE (proposed by W.E.Fox);

*Transferring from Junior Membership.

Peter Gordon Martin, Flat 49, Churchill College, Cambridge (proposed by D.W.Sciama);

Andrew G.Michalitsanos, The Observatories, Madingley Road, Cambridge (proposed by C.J.Durrant);

Clive Lance Neville Ruggles, Eltham College, 267 Upton Road, Bexley, Kent (proposed by P.Richards-Jones).

Eight hundred and eighty-two presents were announced as having been received by the Library since the last meeting, including:

F.M.Bateson, A.F.L.Jones and I.Stranson: *Charts for Southern Variables, Series 7* (presented by Mr F.M.Bateson);

L.Cagniard: *Reflection and Refraction of Progressive Seismic Waves*, translated and revised by E.A.Flinn and C.H.Dix (presented by Dr E.A.Flinn);

Y.Fugita: *Interpretation of Spectra and Atmospheric Structure in Cool Stars* (presented by the author);

K.B.Gebbie and R.N.Thomas (Eds.): *Wolf-Rayet Stars* (presented by the editors);

V.L.Ginzburg: *Elementary Processes for Cosmic Ray Astrophysics* (presented by the author);

V.L.Ginzburg and S.I.Syrovatskii: *The Origin of Cosmic Rays* (presented by the authors);

J.Rahe, B.Donn and K.Wurm: *Atlas of Cometary Forms* (presented by the American Institute of Aeronautics and Astronautics);

V.Ronchi: *The Nature of Light*, translated by V.Barocas (presented by the publisher);

S.K.Runcorn (Ed.): *Palaeogeophysics* (presented by Professor Runcorn);

G.E.Satterthwaite: *Encyclopaedia of Astronomy* (presented by the author).

Mr S.J.Anderson, Mr D.R.Barraclough, Mr K.Birch and Mr S.R.C.Malin were duly admitted Fellows of the Society.

The President welcomed to the meeting Professor E.R.Mustel, of the Astronomical Council of the U.S.S.R. Academy of Sciences, who greeted the Fellows in the name of Russian astronomers.

Accounts were given of the following papers:

M.S.Longair and P.A.G.Scheuer: The luminosity-volume test for quasi-stellar objects;

D.L.Harmer, B.E.Pagel and A.L.T.Powell: The composition of δ Pavonis;

D.H.P.Jones: The kinematics of the Scorpio-Centaurus Association and Gould's Belt;

S.R.C.Malin: Separation of lunar daily geomagnetic variations into parts of ionospheric and oceanic origin; and

I.P.Williams and S.J.Galley: Planetary formation.

MEETING OF 1970 NOVEMBER 13

(in the Scientific Societies Lecture Theatre,
23 Savile Row, London W.1)

Professor Sir Bernard Lovell, President, in the Chair

The President announced the death of Marcel Gilles Josef Minnaert, Gold Medallist and Associate of the Society, in tribute to whose memory the Fellows stood for a while in silence.

The election by the Council of the following Fellows was duly confirmed:

Abdulhem Warid Al-Sabti, Department of Astronomy, The University, Manchester 13 (proposed by J.Meaburn);

*Alfred Siyanmola Asebiomo, Akiti Parapo College, Ido-Ekiti, Western State, Nigeria (proposed by I.P.Williams);

Cyril Derek Blount, 302 Bowthorpe Road, Norwich, NOR 20H (proposed by C.M.Cade);

John R.Booker, Geophysics Department, Stanford University, Stanford, California 94035, U.S.A. (proposed by I.P.Williams);

George Francis Rayner Ellis, Department of Applied Mathematics and Theoretical Physics, Silver Street, Cambridge (proposed by A.Burgess);

Peter William Francis, 84 Bride Street, Islington, London N.7 (proposed by J.C.C.Larard);

Donald Thomas Gair of Nigg, 88 Surrey Road, Poole, Dorset (proposed by W.H.Day);

Jeet Mal Gandhi, Department of Mathematics, Western Illinois University, Illinois, U.S.A. (proposed by P.H.Roberts);

Maurice Victor Gavin, 79 Ardrossan Gardens, Worcester Park, Surrey (proposed by P.Ringsdore);

Hans Heintzmann, Institut f. theor. Physik, Universität Köln, Universitätstr 14, Germany (proposed by W.C.Saslaw);

Paul John Huff, 50 Nursery Road, Chelmsford, Essex (proposed by N.Moorcroft);

John Reginald Young, c/o British India Steam Navigation Co. Ltd, P & O Building, Leadenhall Street, London, E.C.2 (proposed by J.Ebdon).

*Re-election.

The election by the Council of the following Junior Members was duly confirmed:

Peter Walter Buchen, Department of Applied Mathematics and Theoretical Physics, Silver Street, Cambridge (proposed by J.A.Hudson);

Paul Edward Fulford, 43 Cunningham Drive, Langney Point, Eastbourne, Sussex (proposed by P.Ringsdore);

Alan George Green, School of Physics, The University, Newcastle upon Tyne NE1 7RU (proposed by R.W.Girdler);

Vincent Icke, Sterrewacht, Leiden, The Netherlands (proposed by J.K.Merkelijn);

Anthony I.Qamar, 117 Purdue Avenue, Berkeley, California, U.S.A. (proposed by B.A.Bolt);

Hugh Norman Ross, Department of Astronomy, University of Toronto, Toronto, Ontario, Canada (proposed by J.D.Fernie).

One hundred and fifty-two presents were announced as having been received by the Library since the last Ordinary Meeting, including:

Meghnad Saha: *Collected scientific papers*, compiled and edited by Santimay Chatterjee (presented by Professor Chatterjee).

Mr R.D.Ekers, Mr D.M.Franke, Mr J.Lindsell, Mr J.W.Menzies, Dr M.Rees, Dr W.C.Saslaw, Dr V.Trimble, Miss B.L.Webster and Dr L.Woltjer were duly admitted Fellows of the Society.

Dr Raymond Hide spoke on "Motions in Planetary Atmospheres".

At the invitation of the President, Professor H.C.van de Hulst then delivered the George Darwin Lecture on "Cosmic Ray Electrons", at the end of which, on the motion of Professor G.C.McVittie, a vote of thanks was accorded to the Lecturer.

MEETING OF 1970 DECEMBER 11

(in the Scientific Societies Lecture Theatre,
23 Savile Row, London W.1)

Professor Sir Bernard Lovell, President, in the Chair

The President announced the death of Lucien Henri D'Azambuja, an Associate of the Society since 1938, in tribute to whose memory the Fellows stood for a while in silence.

The election by the Council of the following Fellows was duly confirmed:

Leonard B. Abbey, 3204 La Vista Road, Decatur, Georgia 30033, U.S.A. (proposed by S.I. Gale);

Pandit Kamakhya Charan Bhattacharya, Arya Jyotirbigyan Mandir, Jyotishtearth and Jyotishsastri, 51A Jatindra Mohan Avenue, Calcutta 5, India (proposed by P.C. Chaudhuri);

Howard E. Bond, Department of Physics and Astronomy, Louisiana State University, Baton Rouge, Louisiana 70803, U.S.A. (proposed by D. Sher);

*Robert Luke Bryant, Department of Physics, Monash University, Clayton, Victoria, Australia 3168 (proposed by D.R. Blackman);

David Buchanan, 6 Lauriston Road, Walton, Liverpool, L4 9TR (proposed by D.A. Hardy);

David William Burbidge, Court Farm House, 16 Blossom Way, Hillingdon, Middlesex (proposed by J.L. White);

J. Leonard Culhane, Mullard Space Science Laboratory, Holmbury St Mary, Dorking, Surrey (proposed by R.L.F. Boyd);

Ann Leighton Davis, 11 Hawkswell Gardens, Oxford (proposed by J.D. North);

John Dormand, Department of Physics, University of York, Haslington, York (proposed by M.M. Woolfson);

Mark Douma, Physics Department, Imperial College, 10 Princes Gardens, London S.W.7 (proposed by J. Ring);

David Clyde Early, 34 Lincoln Way, Harlington, Dunstable, Beds. (proposed by E.J. Hysom);

Sune Engelbrektson, 44 Park Street, Pleasantville, New York, N.Y. 10570, U.S.A. (proposed by S.I. Gale);

Robert E. Fried, 4610 Orkney Lane S.W., Atlanta, Georgia 30331, U.S.A. (proposed by S.I. Gale);

Edward Michael Gaposchkin, Smithsonian Astrophysical Observatory, Cambridge 02138, Mass., U.S.A. (proposed by C.P. Gaposchkin);

*Re-election.

- Peter Arthur Head, 84 Penwortham Road, Streatham, London S.W.16
(proposed by P.B.York);
- Donald Herbison-Evans, School of Physics, University of Sydney,
Sydney 2006, Australia (proposed by J.Davis);
- Richard W.Hillendahl, Department 52-14, Building 201, Lockheed
Missiles and Space Company, 3251 Hanover Street, Palo Alto,
California 94304, U.S.A. (proposed by H.M.Johnson);
- Edward Norman Jackson, Castle Furlong, Hillcrest Road, Weymouth,
Dorset (proposed by G.E.Stone);
- Norman Claud Keer, 1 Princes Avenue, Carshalton Beeches, Surrey
(proposed by D.K.Northrop);
- John E.D.Kennedy, Centre for Research in Experimental Space Science,
York University, Toronto, Ontario, Canada (proposed by
V.R.Venugopal);
- Roderick William Kidd, 25 Trafalgar Avenue, Roseville 2069, Australia
(proposed by H.Wood);
- Royden Charles Lilwall, Geophysics Laboratory, 6 South Oswald
Road, Edinburgh 9 (proposed by S.Crampin);
- Leslie Thomas Little, The Electronics Laboratory, The University,
Canterbury, Kent (proposed by R.C.Jennison);
- *Joseph Henry McGlashen, "Ballaglashen", Port Erin, Isle of Man
(proposed by F.W.Cousins);
- Zeev Maresse, 10 Crohan Close, South Croydon, Surrey (proposed by
J.Mortleman);
- Delo E.Mook, Department of Physics and Astronomy, Wilder Labora-
tory, Dartmouth College, Hanover, New Hampshire 03755, U.S.A.
(proposed by R.J.Brucato);
- Manuel Peimbart, Instituto de Astronomia, Apartado Postal 70-264,
Mexico 20, D.F., Mexico (proposed by P.P.de Recillas);
- George Hubert Rutter, 26 High Street, Eton, Windsor, Berks (proposed
by R.L.Waterfield);
- Jill Ivna Margaret Scambler, "Meadowcroft", Penton Grafton,
Andover, Hants (proposed by P.Ringsdore);
- Frank Edmund Stafford, "Col Pagana", Via Boschi, Onigi di Piave
(Treviso) 31050, Italy (proposed by L.A.Brown);
- Gordon W.Wares, Space Physics Laboratory, Air Force Cambridge
Research Laboratories, L.G.Hanscom Field, Bedford, Mass. 01730,
U.S.A. (proposed by C.W.Allen);
- Malcolm Wallace Graham Webster, Webster Navigational Aids,
Beneknowle, Diptford, Totnes, Devon (proposed by R.F.Pashley);
- Raymond E.White, Steward Observatory, University of Arizona,
Tucson, Arizona 85705, U.S.A. (proposed by B.J.Bok);

*Re-election.

Robert Eugene Williams, Steward Observatory, University of Arizona, Tucson, Arizona 85721, U.S.A. (proposed by B.J.Bok).

Two hundred and forty-nine presents were announced as having been received by the Library since the last meeting, including:

C.A.Ronan: *Invisible Astronomy* (presented by the author);

A.Unsold: *The New Cosmos*, translated by W.H.McCrea (presented by the author).

Professor J.Heidmann and Mr P.J.Huff were duly admitted Fellows of the Society.

The President welcomed to the meeting Professor W.Fricke of Heidelberg, who greeted the Fellows in the name of his colleagues in Germany.

Professor J.Heidmann spoke on "Extra-galactic Nebulae", Professor S.K.Runcorn discussed "Modern Theories of Earth and Planetary Structure", and accounts were given of the following two papers:

R.W.Hall and N.J.B.A.Branson: High resolution radio observations of the planet Venus at a wavelength of 6 cm;

M.A.G.Willson: Radio observations of the cluster of galaxies in Coma Berenices: the 5C4 Survey.