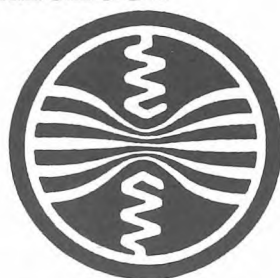


22 AUG 1989

THE BRITISH SOCIETY OF RHEOLOGY

BULLETIN



1989, Vol. 32 No. 2

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THE BRITISH SOCIETY OF RHEOLOGY
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1988/89

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EDITORIAL

It is very pleasing to note that the BSR Annual Award has been made this year to John Benbow. Nobody has worked harder for the Society as President, Secretary and member of Council. I'm sure all members will join with me in offering John our congratulations.

I have tried to keep this issue of the Bulletin relatively free of articles to make space for the catalogue of the Scott Blair collection of monographs, pamphlets and journals. This collection is held at the Hugh Owen Library of the University College of Wales, Aberystwyth and is available for reference by any member of the Society. If my calculations are correct, the catalogue should form a self-contained centre section of this Bulletin which members may wish to remove and re-staple.

I would remind members that the Society AGM will be held during the forthcoming Warwick conference in September. Any member who wishes to raise some matter should contact the secretary.

Peter Townsend.

Peter Townsend



BRITISH SOCIETY OF RHEOLOGY AWARD 1989

The 1989 Award is made to John Benbow, BSc, MSc, DSc, F. InstP.

John Benbow was one of the first post-war products from that quality production line of physicists and rheologists - the University College of Wales, Aberystwyth. There he obtained a first class honours degree in Physics in 1949 and was awarded a DSc in 1961. After a period of work for the Ministry of Defence on armaments, he moved to Manchester (Shirley Institute) and later to Birmingham, where he was briefly employed by the Dunlop Rubber Company.

The central part of his career, however, was spent with ICI, where from 1951 onwards he worked at the Akers Research Laboratory, Welwyn and later at the Alkali, Plastics and Agricultural Divisions. He was, from 1964 to 1971, the Applied Physics Section Manager in the Agricultural Division and in 1971 appointed an ICI Company Research Associate. John says that he had thirty happy and productive years at ICI, where his work dealt with the viscoelastic properties of polythene, crack propagation in brittle plastics, the elasticity of molten polymers and extrusion of ceramic pastes.

It is not widely known that John is a Silversmith, having his own Hallmark, and that his hobbies include gardening, walking and swimming. He is quite shy and has a hatred of public speaking. He is interested in heraldics and has regular contacts with a graphics artist in North Yorkshire (to the benefit of the BSR) but any paper products should not stay too long in John's hands due to their quaint habit of creasing and curling up at the edges!

Dr Benbow moved south in 1982 and was pleased to move into the academic environment in the Chemical Engineering Department at Birmingham University, where he is now a Research Fellow. His work on extrusion involves ceramic pastes and, in particular, the problems associated with extrusions of unusual shapes. He gained particular satisfaction from seeing his earlier technique for the manufacture of multi-cellular catalyst supports being used on a world-wide scale in car exhaust systems. It is difficult to ensure the smooth flow of a ceramic paste into a fine honeycombe shape without developing weak points, and this was achieved in such a way as to beat the Americans at their own game, in a highly competitive field.

John was elected President of the British Society of Rheology in 1976 and, with great public spirit, took over the onerous duties of the Secretary for four years after concluding his period in the top job. He lent a kindly, considerate approach to these duties and always had time for the problems of others, in whatever fields they lay. He is a strong candidate, indeed, for the Annual Award.

NOTICE OF THE 49TH ANNUAL GENERAL MEETING

The 49th Annual General Meeting of the British Society of Rheology will be held on Wednesday 13 September in the Lecture Theatre of the Physics Block at the University of Warwick, situated on the southern side of Coventry. The Meeting will open at 6.00pm.

Members are reminded that, under Rule 7(b), the business of the Meeting includes:

- (i) the election of Officers and Members of the Council for 1989-90.
- (ii) the receipt of a report and audited accounts from Council.
- (iii) dealing with matters raised by Council or by any Member, and receiving suggestions from Members for consideration by Council.

Nominations received to date are:

Secretary	: Mr R E Carter
Treasurer	: Dr A Evans
Membership Secretary	: Mr H Schimanski
Abstracts Editor	: Mr S T E Aldhouse
Bulletin Editor	: Prof P Townsend
Ordinary Members	: Mr P C Anderson Dr P G F Banfill Dr R Buscall Dr D J Hourston Mrs C A Moules Dr D R Oliver

Nominations for Council or for any of the Offices are invited. Nominations should be sent to the Secretary or may be made at the Meeting (see Rule 5 (b)).

The Secretary would be pleased to receive notice of any matter that any Member wishes to raise.

Roy Carter.

Membership News

The following applications for Membership were approved at the Council Meeting on 10th March 1989.

Kathryn C Davis
University of Florida
Citrus Research & Education Centre
700 Experiment Station Road
Lake Alfred, Florida 33850
USA

fetsa

Charles Manke
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Wayne State University
Detroit
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Saad Khan
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Ms Denise Ann Joynes
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 Hillington
 GLASGOW

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Mr P R Turner
 Macphersons Paints Ltd
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fea

Mr Moi
 Brookfield Viscometers
 Unit D12
 The Seedbed Centre
 Langston Road
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Mr Simon James Shilton
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 295 Cathedral Street
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"RHEOLOGY OF FOOD, PHARMACEUTICAL AND BIOLOGICAL MATERIALS"

University of Warwick, 12th - 15th September, 1989.

PROGRAMME

Tuesday, 12th September

- 16.00 Registration opens, Rootes Hall lounge.
17.00 Council meeting.
19.30 Dinner, Rootes Hall.

Wednesday, 13th September

- 08.00 Breakfast. Rootes Hall.
09.30 Introduction. Lecture Theatre, Physics Block
Session A: Chairman Dr J Ferguson
Paper 1: *"Structure and mechanical properties of model composite foods":* M L Green. R J Marshall and K R Langley.
10.00 **Paper 2:** *"Injection moulding of confectionery materials":* A A Collyer. M J Bennett, R H Mayhew, D W Clegg, C R Elson, and S A Jones.
10.25 **Paper 3:** *"Expansion, colour and textural properties of extrusion - cooked fish/corn grit mixtures":* A J Shah.
10.50 Coffee.
11.15 **Session B: Chairman**
Paper 4: *"Influence of a filler on the rheological properties and fracture properties of food materials":* H Luyten and T van Vliet.
11.40 **Paper 5:** *"The rheology of food "melts" and its application to extrusion processing":* R Parker. A-L Ollett, R Lai-Fook and A C Smith.
12.05 **Paper 6:** *"Viscosity measurement on an orange juice":* D C-H Cheng.
12.30 Lunch.
14.00 **Session C: Chairman**
Paper 7: *The 1st Scott Blair Scholar's Lecture: "Flow behaviour of commercial brewing yeast suspensions":* R A Speers. T D Durance and M A Tung.
14.25 **Paper 8:** *"Blood viscosity characteristics and red cell aggregation":* M W Rampling.

- 14.50 **Paper 9:** *"Developments in biopolymer gel rheology"*: J R Mitchell.
- 15.15 Tea.
- 15.40 **Session D: Chairman**
Paper 10: *Rheological behaviour of scleroglucan aqueous systems in the solution and gel domains"*: R Lapasin, S Priol and P Esposito.
- 16.05 **Paper 11:** *"The use of the TA XT2 texture analyser to quantify the staling effect of various bakery products"*: T Raven.
- 16.30 **Paper 12:** *"The ups and downs of baking bread"*: H R Kerr.
- 18.00 Annual General Meeting of the British Society of Rheology.
- 19.30 Dinner. Rootes Hall.

Thursday, 14th September

- 08.00 Breakfast. Rootes Hall.
- 09.30 **Session E: Chairman**
Paper 13: *"The rheological character of gluten"*: T R Noel and G J Brownsey.
- 10.00 **Paper 14:** *"Interrelation between the dynamic moduli and the relaxation modulus of rennet-induced skim milk gels"*: P Zoon, B de Cindio and T van Vliet.
- 10.25 **Paper 15:** *"The rheological properties of bread dough and their relation to baking properties"*: D W de Bruijne.
- 10.50 Coffee.
- 11.15 **Session F: Chairman Dr D R Oliver**
Paper 16: *"Rheology of milk concentrates produced by ultrafiltration and the search for a model fluid"*: S H Jones and W M Jones.
- 11.40 **Paper 17:** *"Preliminary investigations into the replacement of sugar in cake batters"*: I Pateras, A Rosenthal, V Marshall, S Cauvain and D Thacker.
- 12.05 **Paper 18:** *"The rheology of yogurt and related substances"*: C J Parkinson and A Steventon.
- 12.30 Lunch.
- 14.00 **Session G: Chairman**
Paper 19: *"The surface shear rheology of aqueous solutions of gum acacia senegal in the presence of various second components"*: C A Moules and B Warburton.
- 14.25 **Paper 20:** *"New aspects of die design for paste extrusion"*: J J Benbow
- 14.50 **Paper 21:** *"Dynamic mechanical spectroscopy of food and biology materials using the Polymer Laboratories DMTS"*: R E Wetton, R D L Marsh and G M Foster.
- 15.15 Tea.
- 15.40 **Session H: Chairman**
Paper 22: *"Extrusion of microcrystalline cellulose formulations"*: C L Raines, J M Newton and R C Rowe.

- 16.05 **Paper 23:** *"The influence of moisture content and particle size of barium sulphate on the extrusion properties of mixtures with microcrystalline cellulose":* A H Andersen and J M Newton.
- 16.30 **Paper 24:** *"Surface shear rheological properties of hyaluronic acid solutions - metal ion effects":* H R Kerr.
- 19.00 Coaches leave Rootes Hall for Warwick Castle.
- 19.30 Conference dinner.

Friday, 15th September

- 08.00 Breakfast, Rootes Hall.
- 10.00 **Session 1: Chairman**
Paper 25: *"The redispersibility of flocculated W/O emulsions":* F van Voorst Vader.
- 10.25 **Paper 26:** *"Effects of rheological changes on power consumption and Laser Doppler measurements of liquid velocity distributions induced by a Rushton turbine in a stirred vessel":* E Koutsakos and A Nienow.
- 10.50 Coffee.
- 11.15 **Paper 27:** *"The application of the Strathclyde Rheometer to a variety of curing systems":* S Affrossman, D Hayward, A McKee, A McKinnon, F S Baker, R E Carter and R A Pethrick.
- 11.40 **Paper 28:** *"Use of a potential energy model to describe the stress relaxation process":* G Atkins.
- 12.05 **Paper 29:** *"Results obtained using controlled stress oscillation on some difficult pastes":* G Atkins.
- 12.30 Closing remarks.
- Lunch.

CONFERENCE DIARY

Date	Place	Details
29/8/89 - 1/9/89	Glasgow U.K.	'Bifurcation phenomena in solids' Euromech 252: contact Professor R.W. Ogden Dept. of Mathematics, University of Glasgow, Glasgow G12 8QW, Scotland, U.K.
4-8/9/89	Clermont- Ferrand, France	'Powders and Grains' International conference on micromechanics of granular media: contact R. Gourves, C.U.S.T., Laboratoire de Genie Civil, Universite Blaise Pascal deClermont-Ferrand II, Rue des Meuniers, 63170 Aubiere, France.
11-13/9/89 16-18/10/89	Princeton, N.J. Williamsburg, Virginia, USA.	'Mixing of rubber and plastics' 'Reactive extrusion' contact: William C Nissen, Polymer Processing Institute, Castle Point, Hoboken, New Jersey, USA.
12-15/9/89	Warwick U.K.	'Rheology of food, pharmaceutical and biological materials' British Society of Rheology: contact R. Carter, Carter Baker Enterprises, P.O.Box 2, Stansted, Essex CM24 8JG, U.K.
Sept. 1989	Krakow, Poland	'Applications of continuum damage mechanics' Euromech 251: contact Professor M. Chranowski, Politechnika Krakowska, ul. Warszawska 24, 31-155 Krakow, Poland.
5-8/9/89	Metz France	'9th Congres Français de Mécanique' contact: Secrétariat du Congrès Français de Mécanique, Faculté des Sciences, Ile de Saulcy, 57045 Metz Cedex, France.
Oct. 1989	Hamburg, Germany. (B.R.D.)	'The time-dependent behaviour of ice' Euromech 258: contact Professor O. Mahrenholz, Technische Universitat Hamburg-Harburg, Eissendorfer Strasse 38, 2100 Hamburg 90, German Federal Republic.

- | | | |
|-----------------------|------------------------------------|---|
| 21-26/10/89 | Montreal,
Canada. | 'First Inter-American Conference on Rheology' and '61st Annual Meeting, Society of Rheology' and 'First Annual Meeting of the Canadian Rheology Group': contact Dr. L.A. Utracki, NRCC/IMRI, 75 boul. de Mortagne, Boucherville, Quebec, Canada, J4B 6Y4. |
| 31/10/89 -
2/11/89 | Paderborn,
Germany.
(B.R.D.) | 'Thermal effects in fracture of multiphase materials' Euromech 255: contact Professor Dr. K.P. Hermann, Laboratorium für Technische Mechanik, Paderborn University, Pohlweg 47-49, 4790 Paderborn, German Federal Republic. |
| 21-23/11/89 | Paris
France | '24th annual meeting of Groupe Français de Rheologie'
contact: Prof. B.Launay, Departement de l'Aliment, ENSIA, 1 avenue des Olympiades, 91305 Massy, France. |
| 13/12/89 | London
U.K. | 'The rheology of polymer latices'
contact: Dr D.J.Hourston, Dept. of Chemistry, University of Lancaster, Lancaster, Lancs. |
| 14/12/89 | Cambridge
U.K | 'Polymers in motion'
contact: Dr M.R.Mackley, Chemical Eng., New Museums Site, Pembroke St., Cambridge, CB2 3RA. |
| 3/90 | Liverpool,
U.K. | 'Rheology of fresh cement and concrete'
contact: Dr P.F.G.Banfill, School of Architecture and Building Engineering, University of Liverpool, P.O.Box 147, Liverpool L69 3BX, U.K. |
| 24-26/7/90 | Cambridge
U.K. | 'Polymer Blends'
contact: Dr D.J.Hourston, Dept. of Chemistry, University of Lancaster, Bailrigg, Lancaster, Lancashire LA1 4YA, U.K. |
| 3-7/9/90 | Edinburgh,
Scotland, U.K. | 'Third Conference of European Rheologists' and 'Golden Jubilee Meeting' British Society of Rheology' contact Dr. C.J.S. Petrie, Dept. of Engineering Mathematics, University of Newcastle upon Tyne, Newcastle upon Tyne, NE1 7 RU, U.K. |

**Catalogue of the monographs, pamphlets and journals of the British
Society of Rheology's Scott Blair Collection,
deposited in the Hugh Owen Library,
University College of Wales, Aberystwyth**

A. Monographs and pamphlets

The Accurate measurement of the viscosity of liquids. [s.l.], [1958].
Reprinted from The Journal of the Institute of Petroleum, v.44 no.419,
November 1958.

SCOTT QC145.4.V5.A1 Pam

Advances in food research; edited by E.F. Mark, G.F. Stewart.
New York, London, 1958.

SCOTT TX341.A2

Andrade, Edward Neville da Costa. Viscosity and plasticity: being the
substance of three post-graduate lectures to the Oil and Colour Chemists'
Association. Cambridge, 1947.

SCOTT QC189.5.A5

Aspects of adhesion. 4: Proceedings of the conference held at the City
University, London 1966; edited by D.J. Alner. London, c1968.

Contr.s include G.W. Scott Blair.

SCOTT TP967.A8

Backer, C de. Aires de stationnement pour véhicules sur toitures de
bâtiment: étude d'information: synthèse des expériences et connaissances
actuelles. Bruxelles, 1985. Brief abstract in English.

SCOTT TH2401.B1 Pam Qto

Barkas, W.W. Mechanical properties of wood and paper; by W.W. Barkas,
R.F.S. Hearmon and H.F. Rance; edited by R.Meredith.

Amsterdam, 1953. (Deformation and flow). Bibl.: pp.282-289.

SCOTT TA420.B2

Barkas, W.W. The swelling of wood under stress: a discussion of its
hygroscopic, elastic and plastic properties. London, 1949. (Forest products
research). "Based on a course of lectures given at Svenska
Traforskningsinstitutet, Stockholm, Sweden. March 1948". Bibl.: p.99.

SCOTT TA420.B2

Baron, Margaret. The mechanical properties of cheese and butter.
London, 1952. Bibl.: pp.103-106.

SCOTT SF250.5.B2

Barry, Brian William. A Study of the structure and rheology of the system
sodium dodecyl sulphate / 1-hexadecanol / water. [London], 1966.

Ph.D.thesis - University of London.

SCOTT QD543.B2

Bast, Jean. Rhéologie du verre sous contrainte dans l'intervalle de
transformation: recherches effectuées de 1947 à 1964 à L'Institut National
du Verre..., par Jean de Bast, Pierre Gilard [et al.]. Bruxelles, 1965.
(Comptes rendus de recherches (I.R.S.I.A) v.1 no.32).

Summary in English: pp.180-3.

SCOTT TA450.B5 Pam

Bickley, W.G. Via vector to tensor: an introduction to the concepts and techniques of the vector and tensor calculus; W.G. Bickley and R.E. Gibson. London, 1962 (1963 printing). (Applied mathematics series).
SCOTT QA433.B5

Bingham, Eugene C. Fluidity and plasticity. New York, London, 1922.
 Bibl.: pp.348-429.
SCOTT QC151.B6

Biological aspects of occlusive vascular disease; edited by D.G. Chalmers and G.A. Gresham. Cambridge, 1964. Contr.s include G.W. Scott Blair.
SCOTT RC691.C4

Biological Aspects of Occlusive Vascular Disease (Symposium), University of Cambridge, 1962. Symposium...Addenbrooke's Hospital, Cambridge, 1962. Welwyn Garden City, 1962. At head of t.p.: University of Cambridge, School of Clinical Research and Postgraduate Medical Teaching.
SCOTT RC691.B6 Pam

Boas, Marie. Robert Boyle and seventeenth-century chemistry. Cambridge, 1958. Bibl.: pp.233-5. With review by G.W. Scott Blair.
SCOTT QD22.B7.B6

Bourne, Malcolm C. Food texture and viscosity: concept and measurement. New York, London, c1982. (Food science and technology). Bibl.: pp.303-319. - Includes index.
SCOTT TX531.B7

British Society of Rheology. Conference on General Rheology and Stretching Flows, Edinburgh 1977. Summarized proceedings.
SCOTT QC189.5.A1.B8 Pam

British Theoretical Mechanics Colloquium, 10th, Mathematical Institute, Oxford, 1968. [s.1.], 1968. Programme - Abstract of short papers.
SCOTT QA805.B8 Pam Qto

Building materials: their elasticity and inelasticity; edited by M. Reiner, with the assistance of A.G. Ward. Amsterdam, 1954. (Deformation and flow).
SCOTT TA418.R3

Burgers, J.M. Report on the principles of rheological nomenclature; by J.M. Burgers and G.W. Scott Blair. Amsterdam, 1949. At head of t.p.: Joint Committee on Rheology of the International Council of Scientific Unions. Reprinted from the Proceedings of the International Congress on Rheology, Holland, 1948.
SCOTT QC189.5.B9 Pam Folio

Burgess, H.F. The National Institute for Research in Dairying: a memoir. Shinfield, 1962.
SCOTT SF245.G73.R2

Cardiovascular research in Israel: report of discussions of cardiovascular research opportunities in Israel... Washington, 1962. Bibl.: pp.73.
SCOTT RD597.C2 Pam

Cardiovascular surgery; National Heart Institute, National Institutes of Health. Bethesda, Md., n.d. (Public Health Service publication, 1701).
SCOTT RD598.C2 Pam

Carpentier, P. La capillaroscopie périunguëale; P.Carpentier, A.France. Paris, 1981. Bibl.: pp.128-144.
SCOTT RB73.6.C2 Folio

Centre de Recherches Routières, Belgium. Information leaflets. Bruxelles, 1981. Leaflets A01-A13, A15-A31, A00.
SCOTT TE151.C3 Pam Qto

Chan-Mou, Tchen. Mean value and correlation problems connected with the motion of small particles suspended in a turbulent fluid. The Hague, 1947. (Mededeling no.51 uit het Laboratorium voor Aeroen Hydrodynamica der Technische Hogeschool te Delft).
SCOTT QC145.2.C4

Chemical senses and flavor: a journal ... v.1 no.1, 1974. Dordrecht, 1974. Editors: E P Köster, H.R. Moskowitz.
SCOTT QP455.C5 Pam

Choquet, F. Identification et propriétés de bitumes modifiés ou non pour chapes d'étanchéité: édité par le Centre de Recherches Routières. Bruxelles, 1984. (CR 23/84). With a summary in English. Bibl.: pp.145-148.
SCOTT TE221.C5 Pam Qto

Claassens, Jacobus Willem. A study of the adhesion-cohesion, static friction and macro-structure of certain butters. [Reading], 1958. Ph.D.thesis - University of Reading.
SCOTT SF263.C5

Clauwaert, C. Deux méthodes de calcul en vue de la détermination des forces dynamiques exercées sur un profil routier par un véhicule à essieu simple, et leur vérification expérimentale: édité par le Centre de Recherches Routières. Bruxelles, 1984. (CR 24/84). With a summary in English.
SCOTT TE278.2.C6 Pam Qto

Code de bonne pratique pour l'exécution de revêtements en béton de ciment; édité par le Centre de Recherches Routières, Bruxelles. [1985] (Recommandations CRR. R55/85).
SCOTT TE278.C6 Pam

Code de bonne pratique pour la fabrication et la mise en oeuvre de mélanges cendres volantes-chaux en construction routière; édité par le Centre de Recherches Routières. Bruxelles, [1984]. (Recommandations CRR. R52/84). Bibl.: pp.27-30.
SCOTT TE210.C6 Pam

Code de bonne pratique pour la fabrication et la pose des bétons hydrocarbonés; [édité] par le Centre de Recherches Routières. Bruxelles, 1984. (Recommandations CRR. R54/84). Bibl.: pp.153-161.
SCOTT TE270.C6 Pam

Code de bonne pratique pour la réalisation d'une fondation routière en béton pouzzolanique à base de cendres volantes de fraîche production; édité par le Centre de Recherches Routières. Bruxelles, [1984?]. (Recommandations CRR. R53/84). Bibl.: pp.57-59.
SCOTT TE270.C6 Pam

Code de bonne pratique pour le cloutage du béton asphaltique; édité par le Centre de Recherches Routières. Bruxelles, [1979]. (Recommandations CRR. R44/79).
SCOTT TE270.C6 Pam

Colloque international de rhéologie, Paris, 1960. Phénomènes de relaxation et de fluage en rhéologie non-linéaire. Paris, 1961. (Colloques internationaux du Centre national de la recherche scientifique. 98).
SCOTT QC189.A1.C7 Qto

Conference on Microcirculation, 6th, Aalborg, 1970. ... abstracts. Aalborg, 1970.
SCOTT QP105.C7

Conference on Rheology in Medicine and Pharmacy, British Society of Rheology, 1970. Rheology in medicine and pharmacy: papers and discussions of a Conference of the British Society of Rheology, London ... 1970; edited by B.Warburton. Darmstadt, 1971. Special edition from Rheologica acta Vol.10.
SCOTT QH505.R4 Pam

Contributions to mechanics: Markus Reiner eightieth anniversary volume; edited by David Abir. Oxford, 1969. Contents include: Selected list of publications by Markus Reiner: pp.ix-xiii; Prof.Markus Reiner:a biographical sketch / G.W. Scott Blair.
SCOTT QC125.2.C7

Les Corps gras: leur utilisation dans les fabrications de biscuits et de biscottes: conférences données au cours du ler cycle 1952: édité par: Le Centre de formation technique et de perfectionnement des fabricants de biscuits et de biscottes. Paris, [1952?].
SCOTT TX769.C8 Pam

Davis, J.G. A dictionary of dairying. 2nd ed. rev. and enl. London, 1955.
SCOTT SF229.D2

Davis, J.G. Personal recollections of developments in dairy bacteriology over the last fifty years. Offprint from the Journal of applied bacteriology Vol 55, pp.1-12, 1983.
SCOTT QR121.D2 Pam

Davis, J.G. The Supplement to A dictionary of dairying: an encyclopedia of dairy science and technology. 2nd ed. London, 1965.
SCOTT SF229.D2

Decoene, Y. Sections expérimentales en béton bitumineux clouté a Moerbeke: description de l'expérience. Evolution de l'adhérence dans les trois premières années. Bruxelles, 1982. (CR 18/82).
With a summary in English.
SCOTT TE210.5.B5.D2 Pam Qto

Deformation and flow in biological systems; edited by A. Frey-Wyssling. Amsterdam, 1952. (Deformation and flow). Bibl.: pp.517-537.
Contr.s include: G.W. Scott Blair.
SCOTT QH505.F8

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Transactions of the Society of Rheology 1 (1957); 2 (1958)(2); 3 (1959)(2); 4 (1960)(2); 5-12 (1961-68)

Golden Jubilee Meeting of the British Society of Rheology and Third European Rheology Conference

This will take place in Edinburgh from 3rd to 7th September 1990.

Accommodation has been reserved in the Pollock Halls of Residence of the University of Edinburgh and technical sessions will take place in the University's Appleton Tower and George Square lecture theatres. Information on booking hotel accommodation, if this is required, will be sent to anyone requesting it.

Registration will be possible on Sunday, 2nd September when there will be an informal get-together. The conference will open on the morning of Monday, 3rd September and will close at lunchtime on Friday, 8th September.

The 1990 Edinburgh International Festival of Music and Drama will take place during the three weeks prior to the conference and it may be possible to arrange accommodation in the Pollock Halls for some of that time. Details will be sent, when available, to anyone requesting them.

Costs: The cost of registration will be £160 (including a book of extended abstracts, a reception, the conference banquet and five lunches).

A reduction of £20 is offered for early registration provided that this is accompanied by payment of a non-returnable deposit of £40 and prompt payment of the balance of £100 (see below for dates).

Students are offered a reduced registration fee of £110 for early registration (as above) and £130 later. Student applications should be accompanied by a letter from supervisor or Head of Department.

The cost of accommodation in Pollock Halls is expected to be in the region of £100 for four nights (Monday-Friday). This is in addition to the registration fee.

Timetable:

- | | |
|---------------------------|--|
| 1st December 1989 | - Offers of papers, with a title and brief summary . |
| January 1990 | - Notification of paper acceptance . |
| 15th February 1990 | - Last date for reduced fee; deposit due . |
| May 1990 | - Extended abstracts required (details to be notified) . |
| 1st July 1990 | - Balance of registration fee due . |

All enquiries and offers of papers should be addressed to

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Chris.Petrie@UK.AC.Newcastle (on JANET)



Polymers in Motion

14th December 1989
Cambridge University



A day-conference concerned with dynamical aspects of polymeric liquids and solids. An opportunity to review recent advances in basic principles as well as applications.

Venue:

Department of Chemical Engineering and Emmanuel College.

Structure of Meeting:

In the morning session it is proposed that invited speakers would cover basic topics, i.e.:

Molecular motion in the liquid state; slow dynamics, reptation.

Molecular motion in the solid state; fast dynamics, local modes.

In addition speakers would review current applications in the field of melt rheology, diffusion and fracture.

In the afternoon session it is intended to hold a structured discussion for which short contributions are invited. These may be in the form of open questions or reports.

Accommodation would be available at Emmanuel College for the nights preceeding and following the conference for those requiring it.

Conference Organisers: Dr. M.R. Mackley (Chemical Engineering)
Dr. T.C.B. McLeish (Cavendish Laboratory)

If you would like to be on the conference mailing list please return this slip to :
Dr. M.R. Mackley, Department of Chemical Engineering, New Museums Site, Pembroke St.,
CAMBRIDGE, CB2 3RA.

Name:

Organisation:

Address:

I would be interested in raising/reporting on the following topic for discussion:



ADVANCE NOTICE AND CALL FOR PAPERS

ADVANCES IN PARTICULATE TECHNOLOGY - SECOND SYMPOSIUM

UNIVERSITY OF SURREY, GUILDFORD, UK

15 - 17 APRIL 1991

The first symposium with this title was held in April 1987. The objective was to provide a vehicle to publicise the research being conducted under the Specially Promoted Programme (SPP) in Particulate Technology which is financed through the Science and Engineering Research Council. This second symposium, whilst retaining the original objective, will also focus on industrial applications of Particulate Technology with particular reference to the areas of interest covered by the SPP i.e.:

- ▶ *Particle Formation - with the emphasis on the control of Particle Morphology.*
- ▶ *Solid/ Liquid Phenomena - including Suspension Rheology and Solid/Liquid Separation*
- ▶ *Handling and Processing of Dry Solids at High Particle Concentration.*
- ▶ *Aerosols - Formation and Processing.*
- ▶ *Relationships between Microscopic Phenomena and Macroscopic Properties.*

It is expected that some 30 Papers will be presented in the course of the three days. All papers will be refereed and published in a special edition of "Powder Technology".

CALL FOR PAPERS

Past and present SPP grantees should inform the organisers of their intention to submit a paper and enclose a title and a brief synopsis. It is anticipated that a substantial proportion of the contributions will emanate from this source. Other UK and overseas papers are welcome and anyone wishing to contribute should send a title and a brief synopsis, of the order of 200 words in length, to reach the organisers by 1 September 1989.

I intend to submit a paper to the Second Symposium on Advances in Particle Technology:

Title of Paper

.....
The Synopsis is attached.

I wish to receive a registration form for the 2nd Symposium on Advances in Particle Technology:

Name Title.....

Organisation

Address.....

Please send this tear-off slip to Mrs Jean Libaert, Dept of Chemical & Process Engineering, University of Surrey, Guildford, Surrey, GU2 5XH, UK.
(tel: 0483 506330)

THE RHEOLOGY OF POLYMER LATICES

A one-day meeting on this topic will be held in the Society of Chemical Industry's lecture theatre at 14/15 Belgrave Square, London on **Wednesday, 13th December, 1989**. This will be a joint meeting with the Macro Group (UK) Ltd.

For further details please contact:

*Dr. D.J. Hourston,
Department of Chemistry,
University of Lancaster,
LANCASTER,
Lancs.,
LA1 4YA*

*Tel. (0524) 65201 Ext. 3386
Telex. 65111 Lancul G.
Fax. 0524 63806.*

Additional information is also included on a separate loose sheet with this edition of the Bulletin.

CASE Studentship in Engineering Mathematics

The Department of Engineering Mathematics of the University of Newcastle upon Tyne is seeking a research student to work on a project involving the modelling of extrusion and shaping of polymers.

The student should have a background in engineering or mathematics or physical science and an enthusiasm for mathematical and computational modelling.

The project is aimed at developing an understanding of a process used in manufacture from plastic. The features of the process which are likely to be relevant are heat transfer, non-Newtonian fluid mechanics and solidification of the polymer. The ultimate aim of the project is to develop criteria for the choice of polymer grades, additives, operating temperatures and pressures for the satisfactory operation of the process. Collaboration with an industrial partner is in the course of negotiation.

The student will be based in Newcastle upon Tyne, but may spend several short periods with the industrial partner. The Standard SERC studentship will be supplemented. The usual conditions of eligibility for SERC awards apply (British residence and a good honours degree or equivalent).

Enquiries and requests for further details should be sent, as soon as possible, to:

**Dr C J S Petrie
The Department of Engineering Mathematics
The University of Newcastle upon Tyne
Newcastle upon Tyne,
NE1 7RU**

Telephone 091 222 6000 Ext 6230

The award is tenable immediately and applications both from graduates and students graduating this summer will be considered.

CONTROLLED STRESS RHEOMETER

AVAILABLE FOR HIRE

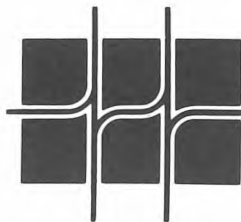
A Carri-Med Model CS100 Rheometer is now available for hire from the Hire Division of ACAL Auriema Limited.

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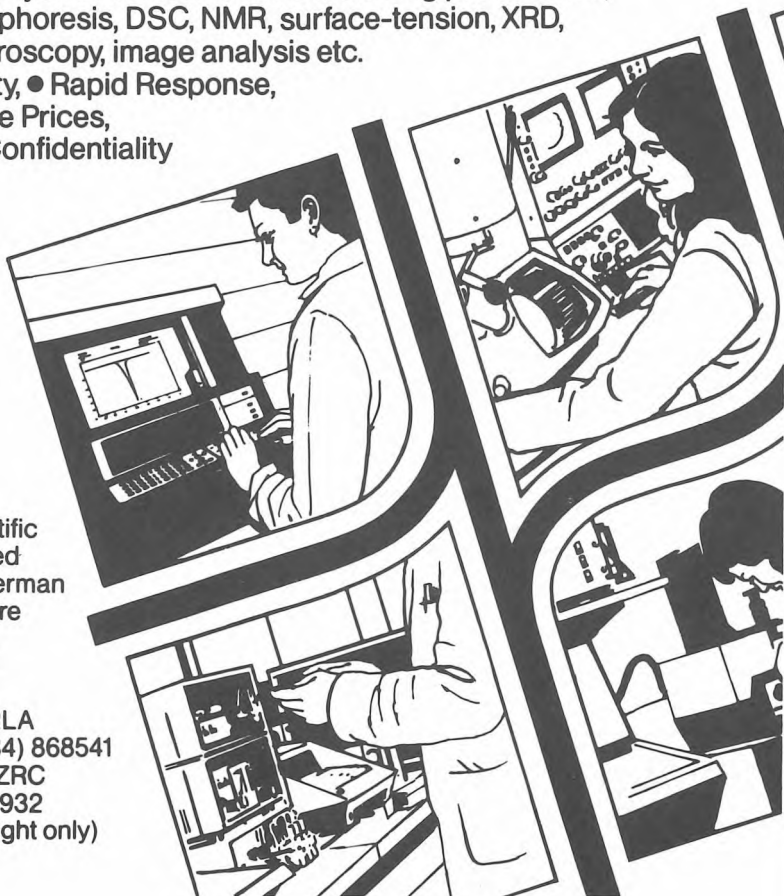
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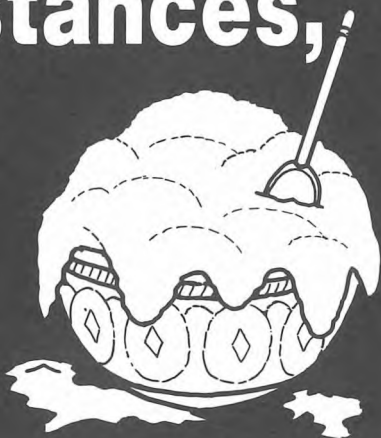
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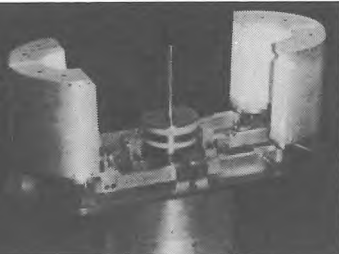
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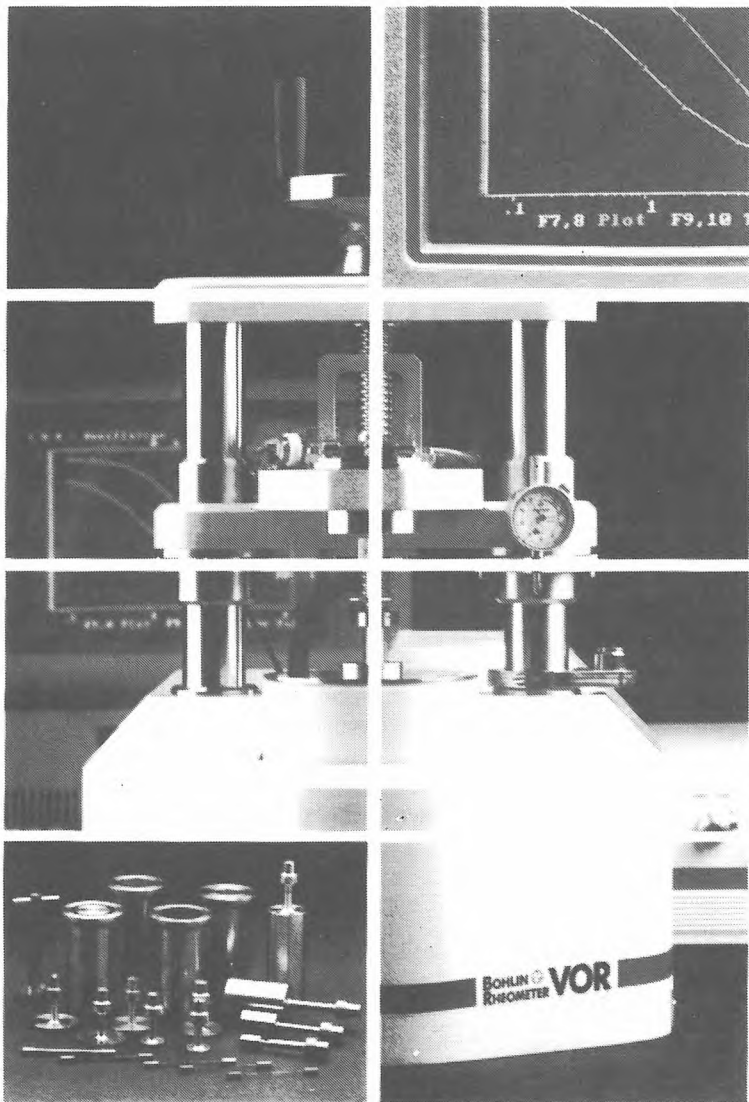
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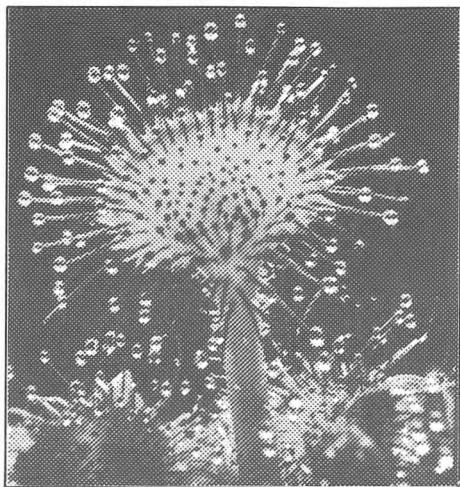
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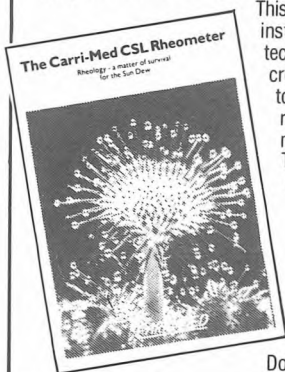
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