

THE SUSS-EX CLUB

NEWSLETTER No. 43, summer 2018

Edited by Adrian Peasgood

Forthcoming event: Plumpton College visit

Tuesday 24 July, 10.30 am - 3.30 pm

Our host will be Reg Lanaway, who entered the college as a student in 1954 and has been a member of staff (now emeritus) for most of his professional life. He has an encyclopedic knowledge of agriculture in Sussex, how the use of the countryside has changed over the last 60 years, how village life has been affected, and how agricultural education has evolved to take account of these changes.

Please arrive between 10 and 10.30. The bus from Lewes Bus Station at 9.55 calls at the college at 10.12 and the return service at 4.17 arrives in Lewes at 4.34. For those traveling by car there is parking at the college and it may be possible to reserve some spaces.

Places are limited and registration will be accepted on a first come first served basis.

A registration fee (see booking form) will be donated to the Plumpton College Charitable Trust for the support of students at the college.

Participants should wear stout footwear.

Programme

Coffee and a talk about the history of the college

Visits to college buildings, stables and equestrian centre, and mechanical workshops

Lunch in the refectory (main courses, salads, snacks to be paid for at the checkout).

Walk to the farm (those who find walking difficult will be able to drive), possibly including brief visits en route to horticulture, floristry, animal care.

Visit to the cow hall, possibly including observation of a milking session and the opportunity to learn about breeding, beef and milk production.

Visit to the farm information centre (agricultural records, geological maps etc.)

If you and your guests would like to join the tour, please complete the form printed at the end of the newsletter and send it to Dr David Smith, 12 Mount Harry Road, Lewes, BN7 1NY, enclosing a cheque for £7 per person payable to Dr J D Smith, **by Monday 9 July 2018**. Address queries to David [j.d.smith@sussex.ac.uk] or 01273 472564].

Forthcoming event: Campus boundary walk

Friday 21 September, 10.00 am - lunchtime

For a description - and aerial view - of the campus boundary walk, please see www.sussex.ac.uk/about/documents/boundary-walk-leaflet.pdf. Martyn Stenning will lead a party of Suss-Ex members round the walk on Friday 21 September. He obtained a Sussex D.Phil in 1995, and for the next 15 years held a variety of teaching and other posts in the University; he is now 'a semi-retired associate of Life Sciences'.

The walk starts near the roundabout at the beginning of Knight's Gate Road, and will end at the Swan inn in time for lunch. Numbers will be capped, so early booking is advisable! Please send a note of your interest to Adrian Peasgood (adrian@peasgood.plus.com, or 01273 508620, or 14 Harrington Villas, Brighton, BN1 6RG).

The route is reasonably sheltered, and wet weather gear should be sufficient protection in the event of poor weather.

Recent publications

Retired members of staff remain members of the academic community and continue their intellectual involvement, expressed in academic journal articles, national and international conferences, and in other responsibilities. The following supplements previous lists.

Derek ATHERTON

- Atherton, D. P. *Control Engineering: an introduction with the use of Matlab*. ISBN 978-87-7681-466-3. Bookboon publications at www.bookboon.com 2009.
- Atherton, D. P. and Boz, A. F. *Time Scaling in PID Controller Tuning*. Trans InstMC. Vol 31 No.5 pp 425-433, 2009.

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- Atherton D. P. *Simulation of Nonlinear Systems*. Proceedings of Control 2010 Coventry 4-7 Sept. pp 102-107, 2010.
- Atherton, D. P. *Fundamentals of Control Engineering*. Encyclopedia of Aerospace Engineering, R. Blockley and W. Shy (eds). John Wiley & Sons Ltd, Chichester, UK, pp 2779-2790, 2010.
- Atherton, D. P. *Analysis and Design Methods for Nonlinear Systems: Analysis Methods*. The Control Handbook, Control System Fundamentals, Edited by W.S. Levine, pp18.1-18.22, 2nd Edition 2010.
- Atherton, D. P. *An Introduction to Nonlinearity in Control Systems*. ISBN 978-87-7681-790-9 Bookboon publications at www.bookboon.com 2011.
- Atherton, D. P. *Control Engineering Problems with Solutions*. ISBN 978-87-403-0374-2 Bookboon publications at www.bookboon.com 2013.
- Atherton, D. P. *Control Engineering – 60 Years of Development*. Proceedings Turkish National Control Conference, pp 63-77, Malatya, Turkey, September 2013.
- Atherton, D. P., N. Tan, C. Yeroğlu, G. Kavuran and A. Yüce, “Computation of Limit Cycles in Nonlinear Feedback Loops with Fractional Order Plants”, *ICFDA-2014, 2014 International Conference on Fractional Differentiation and Its Applications*, Catania, Italy, 23-25 June 2014.
- Atherton, D. P., N. Tan, C. Yeroğlu, G. Kavuran, A. Yüce, “Limit Cycles in Nonlinear Systems with Fractional Order Plants”, *Machines*, Vol. 2, No. 3, pp. 176-201, 2014. (DOI:10.3390/machines2030176).
- Atherton, D. P. Almost Six Decades in Control Engineering. IEEE Control Systems Magazine, pp 103-110. Vol 34, No6, December, 2014.
- Atherton, D. P. ‘Research should be reproducible’ letter to the editor, IEEE CSS Magazine Vol 35, No 2, p21, April 2015.
- Atherton, D. P., N. Tan and A. Yuce, “Methods for computing the time response of fractional-order systems”, *IET Control Theory and Applications*, Vol 9, No. 6, pp. 817-830, 2015. (DOI: 10.1049/iet-cta.2014.0354).
- Tan, N., D. P. Atherton, A. Yuce, F. N. Deniz, “Time Response Computation of Control Systems with Fractional Order Lag or Lead Controller”, *2nd International Conference on Mathematics and Computers in Sciences and Industry-MCSI 2015*, Sliema, Malta, 17-19 August 2015.
- Tan, N., D. P. Atherton, A. Yuce, “Step and Impulse Responses of Fractional Order Control Systems with Time Delay”, *International Symposium on Fractional Signals and Systems 2015-FSS2015*, Technical University of Cluj-Napoca, Romania, 1-3 October 2015.
- Atherton, D. P. ‘Setting the parameters of PID controllers’ *Measurement and Control*, Vol. 48/9, November, pp273-7, 2015.
- Yuce, A., F. N. Deniz, N. Tan, D. P. Atherton, “Obtaining the Time Response of Control Systems with Fractional Order PID from Frequency Responses”, *9th International Conference on electrical and Electronics Engineering-ELECO 2015*, Bursa, Turkey, 26-28 November 2015.
- Deniz, F. N., B. B. Alagoz, N. Tan, D. P. Atherton, “Integer Order Approximation Method Based on Stability Boundary Locus for Fractional Order Derivative/Integrator Operators”, *ISA Transactions*, Vol. 62, pp 154-163, 2016.
- Tan, N., D. P. Atherton, A. Yuce, F. N. Deniz, “Estimating the Time Response of Control Systems with Fractional Order PI from Frequency Response”, *The 4th International Conference on Electrical Engineering-ICEE 2015*, Boumerdes, Algeria, 13-15 December 2015.
- Tan, N., D. P. Atherton, A. Yuce, F. N. Deniz, “Exact Time Response Computation of Control Systems with Fractional Order Lag and Lead Compensators”, *International Journal of Circuits and Signal Processing*, Vol. 10, pp 260 - 268, 2016.

- Atherton, D.P. ‘‘PI-PD, an Extension of Proportional-Integral-Derivative Control’’ *Measurement and Control*, Vol. 49/5, June, pp 161-5, 2016.
- Deniz, F.N, A. Yuce, N. Tan and D. P. Atherton. ‘‘Tuning of Fractional Order PID Controllers Based on Integral Performance Criteria Using Fourier Series Method’’ IFAC Congress, Toulouse, July 9-14, pp. 88/91-96, 2017.
- Atherton, D. P. ‘‘Professor John Clifford West’’ *IET Control Theory Appl.*, 2018-0095, 2018.

Richard COATES

- Coates, Richard (2017) *Your city’s place-names: Brighton and Hove, with Shoreham and Newhaven*. Nottingham: English Place-Name Society.
- Coates, Richard (2017) *Preparatory to A dictionary of Sussex place-names: names beginning with A, E, I, O, U*. Draft of 6 March 2017 [45 pp.], online at <http://eprints.uwe.ac.uk/30943/>.
- Hanks, Patrick, Richard Coates and Peter McClure, eds (2016) *The Oxford dictionary of family names in Britain and Ireland*. Oxford: Oxford University Press (4 vols). [Print book, e-book and online database format.]

Michael LAPPERT

Lappert, Michael Franz (1923-2014) *Oxford dictionary of national biography*, 2018,
<https://doi.org/10.1093/odnb/9780198614128.013.107942>

Jeff LEIGH

- G. J. Leigh (2017) The international publication history of *Conversations on Chemistry*: the correspondence of Jane and Alexander Marcet during its writing, *Bull. Hist. Chem.*, **42(2)**, 85-93.

Jennifer PLATT

- ‘(Auto)biographies as data for the history of sociology’, pp.155-165 in ed. Stephan Moebius and Andrea Ploder, *Handbuch Geschichte der deutschsprachigen Soziologie, Band 2: Forschungsdesign, Theorien und Methoden*. Wiesbaden: Springer Verlag für Sozialwissenschaften 2017. ISBN 978-3-658-07607-8.
- ‘Awards made by sociological associations: their functions and meanings’, Network for the History of Empirical Social Research, Roskilde, Denmark 2017.

Robert SMITH

- Hill, C. A., Smith, R. C., Hebb, L. and Szkody, P., ‘Roche tomography of cataclysmic variables—VII. The irradiated and spotted dwarf nova, SS Cygni’, *Mon. Not. R. Astr. Soc.* **472**, 2937–2944, 2017.
- Smith, R. C., ‘Roche tomography of CVs’, in *The Golden Age of Cataclysmic Variables and Related Objects 3*, F. Giovannelli & L. Sabau-Graziati (eds.), published online in *Proceedings of Science* at <https://pos.sissa.it/255/045/pdf>, retrieved 2017 November 17. Also available as an ArXiv preprint at <http://ukads.nottingham.ac.uk/abs/2017arXiv170202910C>.
- Smith, R. C., ‘Leon Mestel 1927-2017’, *Astronomy & Geophysics* **58**, 6.10-6.11, December 2017.

Mike WALLIS

- Pérez-Maya, A.A., Wallis, M. & Barrera-Saldaña, H.A. (2016). Structure and evolution of the gorilla and orangutan growth hormone loci. *Mammalian Genome* **27**, 511-523.

Obituaries

Valerie Cromwell FSA, FRHistS

Valerie Cromwell was born in Bradford in 1935. Her parents moved south when war work took her father to London. She was educated first at Brighton and Hove High School for Girls and then, when the family settled in Richmond in Surrey, at Putney High School for Girls. She did not apply for admission to Oxbridge, which would have involved further single sex education: showing her characteristic independence of mind, she decided to study at the University of London—and to live at home.

So she did her undergraduate work in History at King's College, London, and was awarded the top First in the discipline throughout the University. She secured a fellowship at the Institute of Historical Research in 1959 and moved to Bedford College for her M.A., to work with Dame Lillian Penson. However 'Dame Lil' died shortly after and although Valerie taught modern British History at Bedford for a year, she soon moved to Newnham College in Cambridge. Asa Briggs then asked her to apply for a post at Sussex: Valerie and Beryl Williams were interviewed on the same day in February 1963, going down together on the Brighton Belle. Valerie postponed her arrival for a year because of her commitments at Newnham.

So she was at Sussex from 1964 to 1991, when she left to go to the History of Parliament. She was lecturer, later Senior Lecturer and then Reader, in History in the School of English and American Studies. She played a full administrative and social part in the affairs of the young and growing University, being several times a member of the University Senate.

She taught 19th and 20th century English history, focusing on institutional and parliamentary history, and in the 1980s developed an MA course on Perspectives in British Parliamentary and Political History, which she taught with Colin Brooks. In addition, given Sussex's interdisciplinary approach, Valerie and a colleague from the English faculty, Patricia Thomson, developed what may well have been the first ever inter-disciplinary course on Feminism in History and Literature. She was valued for her administrative skills as well as her teaching and for the care she took with her doctoral students, many of whom stayed in touch and became friends. One, who wrote on the House of Lords in the middle of the nineteenth century, successfully completed his thesis in time for him to return a term's studentship (those were the days!) to the Department for Education and Science.

Valerie was a leading contributor to the discussions around what the 1960s and 70s knew as 'the Victorian Revolution in Government' and produced a key summary of the debate in *Victorian Studies* in 1966, followed by a reader on the same topic (*Revolution or Evolution: British Government in the Nineteenth Century*) in 1977. She published significant articles on the distribution of power in the nineteenth century House of Commons, for example on the control

of supply and on the role of the private member (the latter in the House of Commons Commission's *Liber Memorialis Sir Maurice Powicke*, 1965); on the process and preparation of parliamentary business; and on the Foreign Office. She became increasingly interested in the manipulation of large data sets with the help of what were then still primitive computers, and produced intriguing charts tracing Commons' voting patterns (revealing groups of like-minded MPs—and their distance from others).

As General Editor (and later Director) of the History of Parliament, she followed a number of distinguished historians: it was as a result of her determination that the whole ethos and working practices of the enterprise were transformed and put on a solid and professional footing. Her tenure of the post saw the publication of several of the History's essential volumes and, crucially, and her major achievement, the launching of work on the House of Lords. Under her guidance the History began to engage, albeit tentatively, with the creation of computer-aided databases and materials. She initiated a seminar on Parliaments, Estates and Representation (later called Parliaments, Politics and People) at the Institute of Historical Research; this has been maintained by successive Directors. A Sussex doctoral student won the Institute's prize for the best paper by a graduate student for a contribution to that seminar. Valerie established excellent relationships with the House of Commons' Commission, funders of the enterprise, and welcomed a number of parliamentarians to the History's Board of Trustees (and, indeed, to the Institute seminar).

Valerie was a long-term member of the International Commission for the History of Representative and Parliamentary Institutions, regularly attending and speaking at its meetings, and serving for a number of years as its Secretary-General. Her recruitment to that body was prompted by its President, Helli Koenigsberger, who believed that the Commission as it stood was in dire need of strengthening its commitment to the study of modern, alongside medieval and early modern, parliaments (a term broadly understood).

Valerie married John, later Sir John, Kingman in Cambridge in 1964. He became a member of the Sussex Mathematics faculty and subsequently Vice-Chancellor of the University of Bristol. Valerie and John spent many happy years in that city. Valerie was very proud of having been High Sherriff of Bristol in 2004–5.

Valerie Cromwell died in Bristol on 7 March 2018, aged eighty-two. She is survived by her husband, by a son and a daughter and grandchildren.

Colin Brooks & Beryl Williams

Peter Lewis, d.28 April 2018.

Ken Whittington, d. 5 May 2018.

Obituary notices are in preparation and should appear in the next Newsletter.

Visit to Plumpton College booking form

Tuesday 24 July 10.30 am - 3.30 pm

Booking details (*please print clearly*)

Return this form to Dr David Smith at 12 Mount Harry Road Lewes BN7 1NY

by **Monday 9 July 2018**

Please reserve places for..... people. Booking fee £7 per person

Name(s)

TelephoneEmail address.....

Dietary requirements.....

I enclose a cheque for £..... (payable to Dr J D Smith).

I shall/ shall not arrive by car (Please delete as necessary)