

# Classical & Non-Classical Logics (BCS-FACS Workshop)

## Provisional Timetable

Monday 15th December 1986

10.00 Registration  
10.30 COFFEE  
10.45 Temporal Logic: an example (Prof. Gabbay)  
11.45 Temporal Logic: a survey (Prof. Gabbay)  
12.45 LUNCH  
14.00 A Survey of Logic I: (Dr Sadler)  
15.00 Tutorial  
16.00 TEA  
16.15 A Survey of Logic II: (Dr Sadler)  
17.15 end of session.

Tuesday 16th December 1986

09.30 *title to be annouced:* (Prof. Gabbay)  
10.30 COFFEE  
10.45 Tutorial  
11.45 Constructive Logic: (Dr Sadler)  
12.45 LUNCH  
14.00 Non-Monotonic Reasoning: (Prof. Gabbay)  
15.00 Dialogue Logic: (Dr Sadler) ←  
16.00 TEA  
16.15 Open Dicussion--"open ended"

# BCS-FACS Christmas Workshop 1986

## Classical and Non-Classical Logics

### List of Delegates

Peter	Anderson	Lloyds Register of Shipping
- Karam	Ashoo	Imperial Software Technology
Ed	Babb	ICL
- Stephen	Bear	CEGB
Miquel	Bertran-Salvans	SERC Rutherford
J C	Bicarregui	SERC Rutherford
Malcolm R	Bird	King's College
Ed J	Bradford	Lloyds Register of Shipping
Bob	Bruynooghe	STL
Alan	Bustany	Logica
- Lynton	Challoner	Praxis
J H	Cheng	University of Manchester
- M	Clark	STL
- Steve	Colwill	Praxis
- D John	Cooke	Loughborough University
David	Cooper	ICL
E J	Cozens	University of Surrey
- R Jim	Cunningham	Imperial College
Mike	Curtis	The Hatfield Polytechnic
- Megan	Davis	The Hatfield Polytechnic
- John	Dawes	ICL
- B Tim	Denvir	Praxis
A J J	Dick	SERC Rutherford
- D G	Esp	CEGB Research
Jude-Allan	Fernandez	RSRE
- D	Freestone	British Telecom
Dov	Gabbay	Imperial College
Teresa M	Gleave	British Aerospace
- D F	Gray	University of Surrey
L N	Harris	British Aerospace
- Will	Harwood	Imperial Software Technology
Alan	Hawes	Plessey
Christopher M	Holt	Queens University
Gareth	Howells	University of Kent
- Laurence	Jordan	Imperial Software Technology
- Trevor	King	RSRE
- D	Langridge	STL
- Martin	Loomes	The Hatfield Polytechnic
Robert	Low	Coventry Polytechnic
R	MacDonald	RSRE
J P	Madar	Scicon
Ray	Marriott	Hewlett-Packard
B M	Matthews	SERC Rutherford
S R	Matthews	The Hatfield Polytechnic
T C	McCluskey	City University
J-J Ch	Meyer	Free University of Amsterdam
- Richard	Mitchell	The Hatfield Polytechnic
- S K	Mitra	Data Logic
- Brian	Monahan	Imperial Software Technology
Abbas	Moslemie	Helsinki University
Yogesh	Naik	Imperial Software Technology
- Wilf	Nichols	The Hatfield Polytechnic
Ilkka	Niemelä	Helsinki University
Allan	Norcliffe	Sheffield Polytechnic
John	O'Connell	Hewlett-Packard
J G	O'Driscoll	B P International

Colin	O'Halloran	RSRE
Leo	Ojala	Helsinki University
Huw	Oliver	Univ. Wales, Aberystwyth
Richard	Owens	ICL
Chris	Paine	Imperial Software Technology
- Hugh L	Porteus	Sheffield Polytechnic
B	Ritchie	SERC Rutherford
- Tony	Rush	Hewlett-Packard
- Martin	Sadler	Imperial College
- Roger	Shaw	Imperial Software Technology
- Vicki	Sivess	The Hatfield Polytechnic
Grahame	Smith	Logica
Guy	Standon	ICL
- Roger G	Stone	Loughborough University
A	Szalas	Imperial College
Heikki	Tuominen	Helsinki University

# The British Computer Society



PLEASE REPLY TO

Dr D J Cooke  
Department of Computer Studies  
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Loughborough  
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LE11 3TU

## FACS Subscription 1986/7

The good news: FACS membership fees for 1986/87 have been kept at the existing levels, ie, £3 for members of BCS, EATCS, ACM, GI, AFCET, etc and £5 otherwise; however it is proposed to raise the (non-BCS etc) rate to £10 next year and hence increase the differential between the two rates.

The bad news is that last year's subscriptions ran until the end of April and hence most memberships have now lapsed. All those wishing to remain on our membership list are asked to reply to this notice and include appropriate fees (cheques made payable to BCS-FACS; please enclose a stamped addressed envelope if a receipt is required).

Specifically you are requested to:

- 1 Confirm your name and address details and, where appropriate, give your BCS (etc) membership number.
- 2 Enclose the subscription fee.
  - (a) If your address label has 'H' printed at the right-hand side of the top line no fee is due.
  - (b) If there is a date, other than 'May 86' then no fee is due until that date, and then the fee will be at the rate in operation at that time.
  - (c) If there is no 'H', no date or 'May 86' then the appropriate fee (£3 or £5) is now due.

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Affiliated organisation (BCS, ACM, etc) \_\_\_\_\_

and membership number: \_\_\_\_\_

3 Please indicate your degree of interest in the following subject areas.

	no interest	slight interest		very interested
Domains				
Denotational Semantics				
Attribute Grammars				
Logic				
Temporal Logic				
Specification				
Z				
VDM				
Algebraic Specifications				
Concurrency				
Verification				
Type Theory				
Application of FMs				
Educational aspects of FMs				
Category Theory				
Graph Grammars				
Petri Nets				

Other topics of special interest (please specify): \_\_\_\_\_

Even if there is nothing to pay and nothing to change, we would appreciate a response. A nil response will result in subsequent erasure from our files.



Dr D J Cooke

PS Although we are not absolutely clear what we should do as regards the Data Protection Act, please note we do hold computer records of our membership details but these will only be used in compliance with our general guidelines of aiming to provide relevant information for the benefit of our membership.

## "Theorem Provers - their use & structure"

A tutorial meeting for those interested in understanding the state of the art of using & building theorem provers. Prerequisite knowledge is an understanding of the basic mathematics & proof procedures.

Morning - Use of Theorem Provers  
Afternoon - Structure

10.30 - 11.30	A Survey of Theorem Provers
11.30 - 12.00	LCF systems, Gypsy, Prolog Editors, lotus etc.
12.00 - 12.30	A case study in software <del>validation</del> verification LUNCH
1.30 - 2.30	LCF approach
2.30 - 3.30	Something like Gypsy
3.30 - 4.00	Tea
4.00 - 5.00	Future Directions eg IST work

In general aim at those with knowledge of the problem but unaware of the solutions.

Keep away from problems of differences in logics.

The examples are ones I know but I am sure Larry can improve on them.

Don't make it highly theoretical.

Don't push too far into commercial applications.

I'm not sure about names of speakers but if the budget can stand it Dan Craigen might be a good person. Could Chris Wadsworth give you names? Cliff Jones is also interested.

# PRAXIS

FX1AEI

31st October 1986

Dr L Paulson  
University of Cambridge  
Computer Laboratory  
Corn Exchange Street  
Cambridge CB2 3QG

Dear Larry

## BCS FACS Meeting on Theorem Proving

I discussed this at the FACS committee meeting after our last telephone conversation. The conclusions we came to are as follows:

- 1 If the duration of the event is to be more than one day, it should be held in University vacation time. This is because a substantial proportion of BCS FACS meeting attendees are from academic establishments who find it difficult to be absent for more than 1 day during term time.
- 2 If the duration of the event is more than one day it can be held in Cambridge. In that case accommodation could be a problem for attendees; we could let them find their own accommodation in principle, but see if some block booking can be made in a college for those who require it. The FACS committee could deal with this if you prefer.
- 3 If the duration is only one day it would be necessary to hold it in London to simplify travelling since the typical membership is scattered about the country.

So, assuming you and Mike can put a programme of speakers together as you said, can you let me know the duration and proposed dates. We aim to be organising another event next Easter and will need to ensure they do not clash.

Thanks very much for your contribution.

Yours sincerely



Tim Denvir

cc Mr D Simpson  
Sheffield City Polytechnic

# University of Cambridge Computer Laboratory

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November 3, 1986

Tim Denvir  
Praxis Systems plc  
20 Manvers Street  
BATH BA1 1PX

Dear Tim,

Thanks for your letter of 31 October. Mike and I think the meeting should be for one day and agree that it can be held in London. It should be held between 13 and 20 April, inclusive. I plan to be in the USA from 26 March to 9 April 1987.

Mike and I can speak and D. Gabbay of Imperial College also seems interested. A one day programme involves about six speakers. Before we can put together a full programme, we would like to know your interests. Should it be tutorial, highly theoretical, oriented towards commercial application? Do you want to discuss how theorem provers are implemented, or how they are used? Are you interested in software verification or hardware verification, or other kinds of proof? What speakers would you like to hear?

We can help you chose speakers but request that FACS do the rest of the administration, such as contacting the speakers, booking the venue, arranging fees and travel expenses, etc.

Yours sincerely,



Dr Lawrence C Paulson