

**Solar-B EIS**

**Short minutes of  
EIS Consortium meeting  
NRL 25-26 January 99**

*EIS-meet-cons-9901mins*

Matthew Whyndham  
3 Feb 99

*Consisting of Attendance list, Handout list and Actions*

## Attendance

(alphabetical order)

### *Birmingham University*

Saad Mahmoud [sm@star.sr.bham.ac.uk](mailto:sm@star.sr.bham.ac.uk)  
George Simnett [gms@star.sr.bham.ac.uk](mailto:gms@star.sr.bham.ac.uk)

### *Cambridge University*

Helen Mason [h.e.mason@damtp.cam.ac.uk](mailto:h.e.mason@damtp.cam.ac.uk)

### *MSSL, UCL*

Len Culhane [jlc@mssl.ucl.ac.uk](mailto:jlc@mssl.ucl.ac.uk)  
Louise Harra-Murnion [lkhm@mssl.ucl.ac.uk](mailto:lkhm@mssl.ucl.ac.uk)  
Matthew Whyndham [mwt@mssl.ucl.ac.uk](mailto:mwt@mssl.ucl.ac.uk)

### *NAOJ*

Hirohisa Hara [hara@solar.mtk.nao.ac.jp](mailto:hara@solar.mtk.nao.ac.jp)

### *NASA-GSFC*

Joe Davila [davila@lindsay.gsfc.nasa.gov](mailto:davila@lindsay.gsfc.nasa.gov)

### *NASA-MSFC*

Larry Hill [Larry.Hill@msfc.nasa.gov](mailto:Larry.Hill@msfc.nasa.gov)

### *NRL*

Ken Dere [dere@halcyon.nrl.navy.mil](mailto:dere@halcyon.nrl.navy.mil)  
George Doschek [doschek@sola.nrl.navy.mil](mailto:doschek@sola.nrl.navy.mil) or  
[george.doschek@nrl.navy.mil](mailto:george.doschek@nrl.navy.mil) ?  
Uri Feldman  
Clarence Korendyke [koren@cyclops.nrl.navy.mil](mailto:koren@cyclops.nrl.navy.mil)  
John Mariska [mariska@dogwood.nrl.navy.mil](mailto:mariska@dogwood.nrl.navy.mil)  
John Seely [john.seely@nrl.navy.mil](mailto:john.seely@nrl.navy.mil)

+others from NRL from time to time

### *RAL*

Richard Harrison [r.harrison@rl.ac.uk](mailto:r.harrison@rl.ac.uk)  
Jim Lang [j.lang@rl.ac.uk](mailto:j.lang@rl.ac.uk)

## Handouts

Documents referred to [**in-this-style**] can be found at <http://www.mssl.ucl.ac.uk/solar-b/docs/>. Replace - with / and append file format e.g. .pdf. or search in <http://www.mssl.ucl.ac.uk/solar-b/docs/doclist.html> .

- a) MW      Agenda [**meet-cons-9901agen**]
- b) LH-M    EIS Science Notes [**sci-notes4**]
- c) LH-M    EIS throughput calculations and science drivers (UK)  
[http://www.mssl.ucl.ac.uk/www\\_solar/solarb/eis\\_wave.html](http://www.mssl.ucl.ac.uk/www_solar/solarb/eis_wave.html)
- d) KD      EIS throughput calculations (NRL)
- e) HH      Sensitivity of EIS (revision 2 15th August, 1998)
- f) HH      Scientific objectives of the EIS
- g) JS      Properties of transition metal multi-layer coatings
- h) CK      The NRL Cassegrain concept
- i) HH      EUV Imaging Spectrometer, status in Japan  
  - Consisting of:
    1. Spacecraft characteristics
    2. Spacecraft pointing precision and stability
    3. Instrument resource allocation for EIS
    4. Spacecraft configuration
    5. location of electronics boxes
    6. Mechanical interface
    7. Thermal interface
    8. Electrical interface
    9. Command interface
- j) SM      some composite materials for space use
- k) JL      Contamination control and materials screening for CDS  
(SPIE 2210, Kent et al)
- l) JL      CDS cleaning schedules
- m) MW    electronic block diagram concept [**sys-des-propblok0.2**]
- n) MW    Preliminary Interface matrix
- o) LH    Draft NASA schedule
- p) JLC    EIS configuration study outline

## Actions

Numbers continue from the existing action list [**man-actions2**].

34	John Seely	multi-layer programme: optical Properties of Silicon-Scandium test piece at 400 Angstroms
35	Joe Davila	Iridium-silicon design and testing
(30)	J side	debris model  (Matthew Whyndham notes: I already have information about the debris model for the orbit. This needs to be interpreted in such a way that it accurately reflects the likely damage to the front filter, and what this would mean in terms of the stray light budget for the whole instrument). 30
36	Clarence Korendyke	prelaunch alignment procedure
37	NRL	Mechanism tradeoff for Cassegrain and OAP - consider disturbing torques, the possibility of counter-motion for: image scanning mechanism and slit exchange mechanism and any other mechanism.
38	BU	Structural tradeoff for Cassegrain and OAP - consider general structural properties (mass and distribution of mass, vibration frequencies, assembly and alignment, s/c interface details) A purged non-vacuum vessel is to be assumed.
39	RAL	calibration plan, neutral lines/images for alignment
40	RAL (Barry Kent)	cleanliness
41	MSSL, UCL	electronics box mass and power
42	LKHM	develop science notes in collaboration with J and US colleagues.
42(a)	MW	Provide "study sheet" in .xls format
43	Matt Whyndham	iterate management plan with 3-country collaboration
44	Matt Whyndham	produce draft list of interfaces with responsibilities and required data.
45	MW+John Mariska	establish a mechanism for the automatic distribution of the project website.