



IAA Study Group 6.7
50th Anniversary of the Space Era 2007

HISTORY STUDY GROUP MEETING No 1

IAC VALENCIA

30.09.2006

Participants

John BECKLAKE, Jopsé M. DORADO, Marsha FREEMAN, John HARLOW, William JONES, Philippe JUNG, Christian LARDIER, Otfried LIEPACK, Charles A. LUNDQUIST, Yasunori MATOGAWA, Christophe ROTHMUND, A. Ingemar SKOOG, Tony SPRINGER

Excused

Philippe COSYN, Mike CIANCONE, Steven DICK, Kerrie DOUGHERTY, Chris GAINOR, George JAMES, Roger LAUNIUS, Roger MALINA, Susan MCKENNA-LAWLOR, Hervé MOULIN, Fred ORDWAY, Emily SPRINGER

The History Study Group held its annual meetings on the occasion of IAC 2006 in Valencia.

1) OPENING OF THE FIRST MEETING & ADOPTION OF THE AGENDA

The Saturday meeting is opened by A.I. Skoog, Study Group Co-Chair. The agenda distributed ahead of the meeting is unanimously adopted.

2) ADOPTION OF THE FUKUOKA 2005 MINUTES OF MEETING

The draft of the minutes from the Fukuoka 2005 meetings were distributed ahead of the meeting. The minutes are unanimously approved and will be posted on the Study Group web page.

3) STATUS OF THE VALENCIA 2006 HISTORY SYMPOSIUM

Out of 30 papers selected, 27 have been uploaded.

Papers missing:

- Session 1: none
- Session 2: .05 (Dougherty) uncertain due to illness
.06 (Moulin) withdrawn
.07 (Lee) withdrawn
- Session 3: none
- Session 4: none
- Poster: none

Co-Chairs/Rapporteurs:

- Session 1: Co-chairs F.Ordway & H.Moulin excused. Replaced by A.I.Skoog

- Session 2: Co-chair M. Freeman acting. Rapporteur replaced by O. Liepack
- Session 3: Ok
- Session 4: Ok
- Poster session: Rapporteur replaced by Tony Springer

A discussion revolves around the final venue of the K. Dougherty (late) paper: the consensus is that she should be allowed to present it, even if not uploaded before September 15th, but if uploaded before the session. It is the new IAC rule that if a paper has not been uploaded (first time due before September 15th) the corresponding presentation cannot be uploaded, and thus the paper cannot be presented. In a transition phase (2006+?) it might be possible to perform first paper uploads until the day before the session: TBC.

Papers for the Proceedings: all 27 uploaded papers are available with the editor 2006, M. Freeman. But two of them (Novikov E4.1.06 and Azcarraga E4.4.01) are not in word format, which causes problems for editing.

The History Symposium Programme Committee at the IPC meeting on Sunday October 1st, 2006 will be represented by Christophe Rothmund.

4) HIGHLIGHT LECTURE ON FRANK MALINA

Roger Malina will give on Friday October 6 at 14:20 the first historical Highlight Lecture (HL) on: FRANK J. MALINA: ASTRONAUTICAL PIONEER DEDICATED TO INTERNATIONAL COOPERATION AND THE PEACEFUL USES OF OUTER SPACE.

This paper will be put into the 2006 proceedings. J. Dorado supports this by confirming a long relation between F. Malina and Spain, in the frame of the DSN for JPL use, via von Karman. A first space course took place in Spain around 1960, with von Karman and Malina.

Due to other commitments, O. Liepack will replace A.I. Skoog as rapporteur for the HL.

The possibility of an annual history highlight lecture is then discussed. Potential candidates for HL are mentioned: George Veis (Greek geodetician), Kosai (early Japanese orbital analyst and IAU president).

Among the questions to be resolved:

- * should it be annual or occasionally?
- * biographical?
- * local?
- * events analysis?

As the IAC 2007 in Hyderabad will include a History Plenary on the 50th Anniversary of the Space Era, future HL should be considered for 2008 (Glasgow) and later.

—> **AI 06-01: Proposals for HL in Glasgow 2008 to be made for November 15th, 2006**

5) STATUS OF HYDERABAD 2007 HISTORY SYMPOSIUM

Hyderabad was the original plan for IAC 2007, but the congress facilities appeared not to be ready in time, thus the final decision to hold the IAC 2007 in New Delhi was taken. However, the Hyderabad congress center has finally been completed, so back to the original decision!

For Hyderabad we will have 4 regular sessions. Dr. P.V. Manoranjan Rao, former Group Director at the ISRO Vikram Sarabhai Space Center, will act as co-chair for the session dedicated to the History of Rocketry and Astronautics in India. See [Annex 1](#).

6) STATUS OF HYDERABAD 2007 HISTORY PLENARY

Besides our long-standing proposal for Sputnik 1/IGY commemoration (50th Anniversary of the Space Era - Sputnik 1 and the IGY), there have been 2 new proposals:

- * Commemoration of 50 years of the space age (from B.N. Suresh, India LOC)

* From Sputnik to space exploration: History and future of propulsion technologies (from G.Saccoccia, IAF Propulsion Committee/ESA).

We maintain our proposal, even if one of the above new ones is retained.

—> **AI 06-02: The chair A.I. Skoog to distribute present proposals for History Plenary from IPC to the members of the SG (15.10.2006)**

—> **AI 06-03: SG members to comment on the three proposals for the History Plenary in Hyderabad 2007 (31.10.2006)**

—> **AI 06-04: The chair A.I. Skoog to contact IPC for more information and further discussions with Dick Kline, IPC Plenary coordinator**

Speakers must not only be from Russia or the USA: Jacques Blamont (early French IGY aeronomist and CNES founder) is mentioned, all the more in the light of France being the first country in the world to cooperate in space with Russia.

7) PROPOSAL FOR THE GLASGOW 2008 HISTORY SYMPOSIUM

- Sessions and Themes

A.I. Skoog reports that, with more pages now allowed for papers (15 instead of 12), there are too many pages (~20%) for the Proceedings if 4 sessions with some 30-32 papers are maintained in the future. And the work of the Volume editor is difficult to handle on a volunteer basis. Also, with 4 history sessions, many congress participants are not able to follow other IAC sessions. P. Jung remarks that in the past many interesting abstracts had led to such a number of accepted papers. In case of reduction down to 3 sessions, it may be necessary to refuse good papers. However, in the very last years the number of accepted papers has been very close to available abstracts, and the quality not optimal. Quality must come for quantity! P. Jung remarks that the quality of a paper may not always be judged from its abstract. The question is asked whether a paper, which reveals itself not good, should indeed be published. It is confirmed that papers should be no more than 15 pages long. See Annex 2.

It eventually is decided by voting to come back to 3 sessions, starting in Glasgow, 2008.

- Co-Chairs/Rapporteurs

See Annex 3.

- Editor for 2008 History Proceedings

The 2008 Volume Editor, who is a member of the Symposia Coordinators group, in order to secure access to all papers on the congress Internet site, is John Harlow.

8) REPORT TO THE COMMISSION VI

The semi-annual IAA Study Group Status Report to the COM VI and the IAA SAC was prepared and submitted on September 15, 2006. It is posted on the Study Group web site.

9) NEXT MEETING

Meeting No 2 will be held, as planned, next Thursday, October 5, 2006 at 09:00.

HISTORY STUDY GROUP MEETING No 2

IAC VALENCIA

5.10.2006

Participants

John BECKLAKE, Philippe COSYN, Steven DICK, José DORADO, Kerrie DOUGHERTY, Marsha FREEMAN, William JONES, Paivi JUKOLA, Philippe JUNG, Otfried LIEPACK, Charles A. LUNDQUIST, Theo PIRARD, Christophe ROTHMUND, A. Ingemar SKOOG, Tony SPRINGER

Excused

Mike CIANCONE, Chris GAINOR, George JAMES, Christian LARDIER, Roger LAUNIUS, Roger MALINA, Yasunori MATOGAWA, Susan MCKENNA-LAWLOR, Hervé MOULIN, Fred ORDWAY, Emily SPRINGER

Guests

Vera GOMES, Mike GRUNTMAN, Radu RUGESCU

1) OPENING OF THE SECOND MEETING & ADOPTION OF THE AGENDA

The Thursday meeting is opened by A.I. Skoog, Study Group Co-Chair. The agenda distributed ahead of the meeting is unanimously adopted.

2) REPORT ON COMMISSION VI MEETING OF OCTOBER 1st

The present form of the IAC only permits some 1,300-1,500 papers each year, and in order to make the financial balance of IAC more attractive the number of papers ought to be increased considerably. Thus a restructuring of the IAC is under discussion. Instead of morning and afternoon sessions with submitted papers it is planned to have morning sessions (Tuesday to Friday) with INVITED PAPERS only. In the afternoon only half-day POSTER SESSIONS will be organized including all generally submitted papers with short presentations of 5-10 minutes by the authors, before going to the poster boards.

If this new structure is adopted, it will be implemented stepwise, and we will probably see more poster sessions next year already. The poster sessions are now called "Interactive Sessions" using some multimedia techniques like laptops etc. More instructions are to be established before the 2007 IPC in March 2007.

3) REPORT ON THE 1st SG MEETING ON SEPTEMBER 30 AND OPEN ISSUES

The History Symposium this year covers 27 papers plus the History HL by Roger Malina. Missing papers are the ones by Novikov, Moulin and Lee.

It was decided in the first meeting to reduce the number of sessions of the IAA History Symposia to 3 from 2008 in Glasgow. Each session should have 8 +/- 1 papers.

If we have good abstracts for more than 3 sessions in Glasgow, the ones in excess could be shifted to a poster session.

J. Harlow, who volunteered for the Glasgow proceedings, also will be in charge of the special session dedicated to the UK. He has several ideas on the latter. The organisers of the IAC Launcher Session have proposed, like in Vancouver with the Arrow engineers, to have a common paper with the History Symposium related to the UK: this is accepted.

All Action Items from 2005 have been closed ([Annex 4](#)).

4) MEMBERSHIP OF THE 2007 STUDY GROUP

Professor Viktor V. Glushkov (co-chair for session E4.1 in 2007) and Dr. P.V. Manoranjan Rao (co-chair for E4.4 in 2007) are added to our roster.

See [Annex 6](#) for the membership list.

5) 50th ANNIVERSARY OF THE SPACE ERA IN 2007

At least 3 commemorations are planned in Russia: Tsiolkovsky 150 years (in Kaluga), Korolev 100 years (in Moscow?) and Sputnik 50 years.

IAF and UNESCO plan a celebration in Paris during the IPC Spring Meeting, with 3 highlight lectures (including a Russian one); a DVD will be published.

In France, there is a Coherency Circle to coordinate all commemorations, in e.g. Paris, Toulouse, Bordeaux, Strasbourg. A stamp has been proposed, on the theme of Franco-Russian cooperation in space. There will be an exhibit in Cité de l'Espace in Toulouse, conferences (including an AAAF History Saturday on October 6th in Musée de l'Air et de l'Espace), an AAAF symposium on French early space activities in Paris, and proposed generalised Yuri's Nights in France (already going on every April 12th for some time in Paris and Strasbourg ISU).

In the US, Sputnik and IGY will be commemorated in the NASM.

Finland will commemorate 50 years of the modern space age.

Celebrations also are planned in Australia and Israël.

A list of events planned in 2007 for Sputnik will be provided.

→ **AI 06-05 List of US activities in 2007 to be provided before November 15th (NASA)**

→ **AI 06-06 List of French activities in 2007 to be provided before November 15th (AAAF)**

Concerning India, at the LOC initiative, a book is planned "50 years of space activities", based on some highlights, like Sputnik 1, Apollo 11, Shenzhou or Huygens. Our SG was thus contacted by mail, about a manuscript to be provided by March/April 2007: A. I. Skoog declined, as not possible. It is decided to offer to the IAC LOC the support in form of peer review of the draft manuscript, or discuss/provide inputs to the contents.

With this in mind, a discussion takes place on a general list of key space events: lists already exist in NASA and AAAF.

→ **AI 06-07 List of key space events to be provided before November 15th (NASA)**

→ **AI 06-08 List of key space events to be provided before November 15th (AAAF)**

6) REPORT ON THE IAF/IAA/IISL ADVISORY COMMITTEE ON HISTORY ACTIVITIES

This is not an active Committee conducting study work per se, only an advisory one, as its title clearly indicates. The task of this Committee is to review potential study 'projects' in the field of international space cooperations and make recommendations to IAF for study work on a potentially commercial basis. Its members are O.

Alifanov, G. Brachet, J. Dorado, S. Doyle, J. Logsdon, L. Perek, A. I. Skoog. The Committee reports to Y. Matogawa, IAF Vice President History.

A first preparatory meeting took place during the 2006 IPC Spring Meeting, and the first official meeting was held last Monday in Valencia.

7) STATUS OF THE IAA HISTORY SYMPOSIA PROCEEDINGS

Volume 17 (Torino 1997) is available from Univelt Inc. Papers for 1998 to 2002 are in the hands of the Editor in Chief Don Elder. The 1998 Proceedings are planned to be published end 2006.

- 1999 (Amsterdam) proceedings by Frank Winter: manuscript at Editor-in-Chief.
- 2000 (Rio) proceedings by Otfried Liepack: manuscript at Editor-in-Chief.
- 2001 (Toulouse) proceedings by Christophe Rothmund: manuscript at Editor-in-Chief.
- 2002 (Houston) proceedings by Michael L. Ciancone: manuscript at Editor-in-Chief.
- 2003 (Bremen) proceedings by Otfried Liepack: manuscript due March 2007.
- 2004 (Vancouver) proceedings by A. Ingemar Skoog: manuscript due March 2007.
- 2005 (Fukuoka) proceedings by Emily Springer: manuscript due Summer 2007.
- 2006 (Valencia) proceedings by Marsha Freeman: manuscript due September 2007.
- 2007 (Hyderabad) proceedings by Tony Springer.

M. Freeman mentions that some papers are revised without clear indication of their status. Authors will be reminded to clearly indicate of revisions in file name. Also some word files are very big due to pictures; a text-only-version would be better for editing activities. Some papers are way more than 15 pages. O. Liepack proposes e.g. to remove long reference lists at the end of some papers.

Concerning the biographical notes for authors as proposed last year, a standardised form should be established for coherency. 16 biographies were received for 2006.

→ AI 06-09 Standard author's biography form (Skoog, 15.11.06)

The existing Instructions to Authors of IAA History Papers will be revised and updated according to above.

8) ACTA ASTRONAUTICA HISTORY PAPERS - CORRESPONDING EDITOR FOR HISTORY

Rupert Gerzer will act in addition to J.P. Marec as editor of Acta Astronautica. A. I. Skoog has been appointed Corresponding Editor for History.

It is planned to have one or two papers per year from all IAF committees and IAA Commissions and Study Groups including the History ones. These new papers should not have been or being planned to be published elsewhere (for the history ones preferably not from the IAC History Symposium). It also could be a solution for the long history papers!

9) NASA HISTORY DIVISION RFQ "NASA INTERNATIONAL RELATIONS"

NASA History Division has released a Request for Proposal (RFP) for a book manuscript on a "History of NASA's International Relations". This RFP will result in a contract to perform the study work and preparing the manuscript. Due date for the proposals is October 11, 2006. NASA Chief Historian Steven Dick gave a short introduction to the planned project and contract. More can be found on the NASA web site.

As this is clearly a large contract job with a tight schedule, the IAA History Study Group is not the right platform for conducting this work. Steven Dick pointed out that the IAA History Study Group with its members represents a large international platform of experts in the field of history of astronautics, and he will be glad to forward this information to any contractor selected by NASA. The IAA History Study Group is well suited to act as a peer reviewer of the manuscript to be produced under this contract.

10) MEMBERS ACTIVITIES

Several members have asked for more time during the History Study Group meetings to exchange information on personal activities and related issues (questions, support, inputs etc). Due to the large amount of administrative matters coming from a large number of reorganisations in the last years and required to be dealt with at the annual History Study Group meetings during the IAC, this exchange of information on personal activities has been cut short lately. For the future a larger effort shall be undertaken to provide time for some discussions on personal activities. For this year all members are asked to submit their inputs in writing by November 30, 2006, and the inputs will be distributed in an Information Note before year's end.

→ **AI 06-10 Members to report on their personal activities and interests (30.11.06)**

11) MISCELLANEOUS

Some members expressed the view that the conduct of the 2nd Study Group meeting on a Thursday morning (9-12) makes it impossible to follow many interesting sessions at this time, and propose to conduct the meeting instead during lunch time on Thursdays (12-15). This will be reviewed and considered for next year, when the detailed schedule of sessions (end morning and early afternoon) is known. It is felt that 3 hours is necessary for the second meeting (see also item 10 above) and the lunch break might be too short.

Our historian dinner will take place this evening, as kindly organised by J. Dorado, in a seashore restaurant in the harbour area.

All members are reminded of the Study Group web site where all new documents are regularly posted:

Web page: <http://www.iaanet.org/restrict/s67.html> (user karman and pwd giotto)

A. Ingemar Skoog

IAA Study Group 6.7 Co-chair

Philippe Jung

IAA Study Group 6.7 Secretary

Annex 1

58th IAC, HYDERABAD 2007

E.4 41st History of Astronautics Symposium

Symposium Description: Honouring the 50th anniversary of the Space Era (Sputnik 1 and the International Geophysical Year, IGY). History of space science, technology and development, rocketry, personal memoirs, as well as the history of rocketry and astronautics of India. The entire spectrum of space history, at least 25 years old, is covered.

Symposium Coordinators

Steven J. DICK	Christophe ROTHMUND
NASA Chief Historian Director, NASA History Division Office of External Relations NASA Headquarters 300 E Street SW WASHINGTON, D.C. 20546-0001 USA Tel: (1) 202 358 0383 Fax: (1) 202 358 2866 E-mail: steven.j.dick@nasa.gov	SNECMA BP 802 27208 VERNON CEDEX FRANCE Tel: (33) 2 32 21 71 20 Fax: (33) 2 32 21 77 70 E-mail: christophe.rothmund@sncma.fr
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Session E 4.1: The International Geophysical Year, Sputnik 1 and the Space Race

Description: Session honouring the 50th Anniversary of the Space Era. Invited space pioneers involved in the initiation and early conduct of the Soviet/Russian space programme (Sputnik 1), the International Geophysical Year (IGY) 1957-58 and the space race. The political and programmatic implications of the space race and autobiographical memoirs of early pioneers. Proposed papers by scholars researching the beginning of the space era.

Co-chairs

Frederick I. ORDWAY	Valery V. GLUSHKOV
US Space & Rocket Center 2401 N. Taylor Street ARLINGTON, VA 22207 USA Tel: (1) 703 524 4487 Fax: (1) 703 524 5856 E-mail: ordmars@aol.com	Institute of the History of Sciences and Technology named after S.I. Vavilov, Russian Academy of Sciences Staropansky Pereulok, 1/5 MOSCOW 109012 Russian Federation Tel: (7) 495 921-80-61 Fax: (7) 495 921-80-61 E-mail: postmaster@ihst.ru

Rapporteurs

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Note: This session must be carefully coordinated with the planned plenary event "50th anniversary of the Space Era" (thus planned with the same organising group for Plenary and the Session E 4.1).

Session E 4.2: Memoirs

Description: Autobiographical and biographical memoirs of individuals who have made significant original contributions to the development and application of astronautics and rocketry.

Co-chairs

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Rapporteurs

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Session E 4.3: Organisational, Scientific & Technical Reviews

Description: History of government, industrial, academic and professional societies and organisations long engaged in astronautical endeavours. Historical summaries of rocket and space programmes.

Co-chairs

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Session E 4.4: History of Indian Contributions to Rocketry and Astronautics

Description: Special session with invited and proposed speakers. This session will cover ancient rocketry and the origins (technical and political aspects) of the modern space programme of India.

Co-chairs

Otfrid LIEPACK	Manoranjan RAO (Indian co-chair)
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Number of History Sessions: 4 or 3?

Past/Present:

IAC	For IPC	Accepted	No Sessions	Presented
2003 Bremen	42	36	4 + P	27
2004 Vancouver	37	35	4 + P	27
2005 Fukuoka	21 +	23	3	15
2006 Valencia	32	30	4 + P	(27?)

Max 12 pages pro paper.
Proceedings: ~ 350 pages.

Major concerns:

- Quality of papers
- Size of proceedings as longer papers
- Amount of work for Editors
- Size of Congress

Future alternatives:

4 sessions with ~ 27 papers to be presented. Max 15 pages pro paper. Proceedings: ~ 430 pages. Poster sessions TBD.



3 sessions with ~24 papers accepted results in ~ 21/22 papers given and ~350 pages proceedings. Poster sessions TBD.

Annex 3

59th IAC, GLASGOW 2008

E.4 42nd History of Astronautics Symposium

Symposium Description: History of space science, technology and development, rocketry and personal memoirs. The history of rocketry and astronautics of the UK. The entire spectrum of space history, at least 25 years old, is covered.

Symposium Coordinators

Steven J. DICK NASA Chief Historian Director, NASA History Division Office of External Relations NASA Headquarters 300 E Street SW WASHINGTON, D.C. 20546-0001 USA Tel: (1) 202 358 0383 Fax: (1) 202 358 2866 E-mail: steven.j.dick@nasa.gov	Christophe ROTHMUND SNECMA BP 802 27208 VERNON CEDEX FRANCE Tel: (33) 2 32 21 71 20 Fax: (33) 2 32 21 77 70 E-mail: christophe.rothmund@sneema.fr
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Session E 4.1: Memoirs and Organisational histories

Description: Autobiographical and biographical memoirs of individuals who have made significant original contributions to the development and application of astronautics and rocketry. History of government, industrial, academic & professional societies & organisations long engaged in astronautical endeavours.

Co-chairs

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Session E 4.2: Scientific & technical reviews

Description: Historical summaries of space programs, satellite and rocket projects, and technical and scientific achievements.

Co-chairs

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Session E 4.3: History of UK contribution to astronautics

Description: Special session with invited and proposed speakers. This session will cover ancient rocketry and the origin (technical and political aspects) of the modern space programme of the UK.

Co-chairs

Otfrid LIEPACK	John HARLOW (UK co-chair)
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Annex 4



*IAA Study Group 6.7
50th Anniversary of the Space Era 2007*

Action Item List 2005

No	Title	Responsible	Due Date	Closure
05-01	SG Co-chair to contact Jim Zimmerman, IAF President, for information/coordination of new IAF Advisory Ctee on History Activities	A. I. Skoog	asap	20.10.2005
05-02	Editor for 2006 proceedings	A. I. Skoog	asap	20.10.2005
05-03	Inform IAF of Marsha Freeman as Editor 2006 (add as symposium coordinator)	A. I. Skoog	asap	06.11.2005
05-04	Biographical notes on each author in the History Symposia Proceedings. Check with Coordinator, Editor-in-Chief and Publisher.	A.I. Skoog	asap	01.11.2005 02.11.2005(Launius)

Annex 5



IAA Study Group 6.7 50th Anniversary of the Space Era 2007

Action Item List 2006

No	Title	Responsible	Due Date	Closure
06-01	Inputs for History HL 2008 in Glasgow	All	15.11.2006	
06-02	The chair A.I. Skoog to distribute present proposals for History Plenary from IPC to the members of the SG	Skoog	15.10.2006	
06-03	SG members to comment on the three proposals for the History Plenary in Hyderabad	All	31.10.2006	
06-04	History Plenary planning 2007 coordination with IPC	Skoog	15.11.2006	
06-05	Inputs NASA planned historical events 2007	Dick	15.11.2006	
06-06	Inputs AAAF planned historical events 2007	Jung	15.11.2006	
06-07	General list of key space events from NASA	Dick	15.11.2006	
06-08	General list of key space events from AAAF	Jung	15.11.2006	
06-09	Proposal for form for Biographical Note on paper authors	Skoog	15.11.2006	
06-10	Members to report on their personal activities and interests	All	30.11.2006	

Annex 6

IAA Study Group 6.7 History List of Members

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