



## *IAA Study Group 6.7 50<sup>th</sup> Anniversary of the Space Era 2007*

### **Information Note No 8**

## *Overview of History Activities of Study Group Members and Access to History Information*

### **1. Introduction**

A strong interest in exchange of personal activities information amongst the members has been expressed from time to time over the last years. But the Study Group meetings during the IAC are compressed and full of actions to be taken for the running of the Study Group and to provide inputs and overviews of the History Symposia and other administrative matters required by the IAA and IAC. Each time this subject is put on the agenda it falls short due to lack of time.

Thus this is an attempt to collect and disseminate the information available from the Study Group members, which will hopefully give a reasonable substitute for exchange of information, even if person-to-person discussions on the inputs can only be by e-mail.

At irregular intervals additional information on sources for historical data are submitted to the Study Group, and this Information Note includes such information in the way it was provided without any further reviewing or comments.

### **2. Overview of Members Personal Activities**

*The information received from our members has been included as received, i.e. no editing, only formatting to the standards of the Information Note, has been undertaken. Also the personal form of writing has been maintained by each of the contributions.*

#### **2.1 Kerrie Dougherty**

I've been doing quite a bit of writing, with articles (space-related but not historical) published in both the main Australian astronomy and space magazines. A book for which I had previously written a chapter, the London Science Museum's "Showcasing Space" (edited by our own Doug Millard), was published in November 2005. My chapter "Retrieving Woomera's Heritage: recovering lost examples of the material culture of

Australian space activities” was a greatly expanded adaptation of my 1999 congress paper. I also completed the editing for the 98 History volume and refereed articles for Space Policy and some other journals. Lately, I’ve been asked to write some book reviews on space history-related publications, so these are underway at the moment.

In addition, I’ve been assisting a colleague here in Sydney with research on some books he’s been working on: one of space animals and another (just published) on scientist astronauts. I’ve also been helping out with the research for a book on the history of the Carnarvon MSFN Tracking Station in Western Australia.

For those of you with an interest in science fiction, you might be like to know that I have also co-written two Star Wars guidebooks and am currently working on a Dr. Who guidebook, to be published next year [BTW, this is actually confidential at the moment, as the book has not yet been announced]. Maybe not space history-related, but lots of fun to do (and I even manage to work a bit of real science in when I can!)

Haven’t done much media work in the past 12 months, but I have been doing a lot of public outreach work for the museum, with regular talks to women’s groups and service groups (like Lions and Probus clubs): these talks cover a variety of space-related topics, including history. This year, I’ve started doing lectures for the University of the Third Age, a continuing education program for retired people, and have a ‘History of the Space Age’ lecture that I present for them. I was also a speaker at the newly instated ‘Space Science Summer School for Students’ at Newcastle University, where again I presented on the history of the Space Age. As the closing speaker at the ‘Schools’ Space Science Symposium’ in Sydney in October, I also presented a piece on “50 Years of Solar System Exploration” focussing on how our knowledge of the solar system had expanded thanks to space exploration.

Here at the Powerhouse Museum there has not been much activity in connection with the Space exhibition until just the past two months. I am now hopeful that the long overdue refurbishment of the display will take place within the next 12-18 months: of course, such a short time span for the redevelopment of a major exhibition means a lot of work for me and I’m already going flat out on the documentation for it. But I’ve had other projects, including assisting with the development of an exhibition on the history of Australian television (since this year is the 50<sup>th</sup> anniversary of the introduction of television in this country) and working up a small display of space artefacts from the collection for our new ‘open storehouse’ which will be opened to the public next year.

My other major activity in the past 12 months has been involvement with the International Space University. Some of you will know that I’ve been guest lecturing in their Summer School program since 2001. This year I was the Co-chair for their Space and Society Department, spending 5 weeks in Strasbourg in July-August. Space and Society is effectively the Humanities department of the ISU, so naturally it covers history, as well as other topics examining the relationships between space activities, society and culture. Our colleague Christophe Rothmund assisted me in presenting a workshop program on using the Internet as a research tool, which focussed on space history research as its example.

## 2.2 Marsha Freeman

Two main space history activities I was involved in this past year were the NASA/NASM conference on the Impact of Space on Society, in September in Washington, D.C., and the 9th International Lunar Exploration Working Group conference, in Beijing.

The Washington conference was quite comprehensive and presented various aspects of the impact of the space program on society, in terms of the economy, education, technology, culture, and other aspects.

Most of the presentations were by academic historians, and illustrated two diametrically opposed concepts of the impact of the U.S. space program. (As was pointed out, the international impact was not covered in this symposium, and should be next time). One view is that the Apollo program, in particular, had little impact on society, was a fleeting and irreproducible event, and, in the end, was a disappointment. This view is represented in its extreme in a new book I just finished reading: *The Dark Side of the Moon: The Magnificent Madness of the American Lunar Quest*, by Gerard DeGroot. I had a chat with one of the speakers at the conference, who is not a space historian, and could not understand why so many of the speakers were "so negative" about the space program.

The other view, which I share, is that the Apollo program was a seminal cultural, historical, economic, and technological event in the history of the 20th century. This view was less represented in the conference. This tension in the interpretation of the impact of the space program in society allows continuing scholarship and study on this important question.

The Beijing conference included valuable presentations on the future lunar exploration plans from the many nations that are in the midst of preparing spacecraft to go to the Moon. My presentation was on the vision of Krafft Ehricke. Many in the audience, who were unfamiliar with his work, were quite impressed that Ehricke had outlined in detail so many aspects of lunar development that they are working on now, as if for the first time. The conference included a tour of Chinese space development facilities, and was an eye-opener for all of the conference attendees.

We were also able to visit the Ancient Observatory in Beijing, which was a fascinating display of astronomical instruments that were developed during Europe's "Dark Age," and the Science Museum, where thousands of young people can use hands-on experiments to learn basic scientific principles. The Shenzhou I spacecraft sits right inside the front door, and was a main attraction.

For next year, I hope soon to sign a contract to write a somewhat short biography of Krafft Ehricke to go with a reprint of his selected writings on lunar exploration, from the 1950s to the 1980s. In my view, there has to be more vision in the "Vision" that NASA is implementing.

## 2.3 Chris Gainor

I have just published a new book, *Canada In Space: The People & Stories Behind Canada's Role in the Exploration of Space*. Edmonton: Folklore Publishing, 2006.

Another book, *To A Distant Day: The Rocket Pioneers*, has been completed and is due for

publication in 2007 or 2008 by the University of Nebraska Press.

I took part in NASA's Societal Impact of Spaceflight conference in Washington D.C. in September and delivered a paper, "The U.S. Space Movement and Space Program Opposition." NASA is planning to publish the proceedings of that conference.

I am pursuing graduate studies in the history of technology at the University of Alberta. I hope to begin a new project soon on the political history of space exploration in the United States. I am also working on papers on Canadian participation in the U.S. Space Shuttle program, and on Canadian space organizations.

I continue my work as International Programs Editor at *Quest: The History of Spaceflight Quarterly*.

#### 2.4 Philippe Jung

AAAF History Saturdays: the last 2005 one on December 10<sup>th</sup> was on the anniversary of ESA creation, the next one on December 16<sup>th</sup> will cover the period from Ruggieri to Le Prieur. Conferences on the history of astronautics, manned space flight, space probes, space planes, Galileo, Huygens, launch bases, space activities in Cannes were given, as well as a talk on the fascinating similarities between Verne, Von Braun and Hergé. A radio interview was given on M. Pontes flight. Corrections have been sent to journals about Le Prieur, NOSS, Lacrosse, NSS-6, SDS, RVX-1, Huygens, Lunar-A, Asia satellites, Satmex 6, Thaicom 5, Explorer 1, Sputnik, Eole, mini/microsats, RS-1/2 RTG/SNAP, J.Newman, Og Airbus, AS 20/30, MB-1, Sharman, Apollo boots, ASAP, Atlas V, French milspace & chronology, Ducrocq, French/Indian cooperation. Activities are pursued on Mars probes, ONERA rockets, the French naval missiles, biological flights, the history of Le Cardonnet range near Montpellier. *Aerospatiale Matra Patrimoine d'EADS* is active in historical matters, publishing a letter and has created a web site. The 40<sup>th</sup> anniversary of the launch of Diamant n° 1, which made France the 3<sup>rd</sup> space power, at the very first attempt, was commemorated on November 26<sup>th</sup> in Bordeaux (the main industrial site) and Vernon (the site for liquid propulsion): J. Villain (IFHE) & P. Jung made historical presentations. Workshops on the history of French sounding rockets are continuing in Paris (H. Moulin) and Toulouse (Jean-Jacques Serra), with IFHE and CNES. A forthcoming anniversary is the creation of the first aerospace school in the world, Sup'Aero, in 1909.

Others The 4<sup>th</sup> IFHE seminar on December 8/9<sup>th</sup>, 2005 was about the early Franco-US relations in space. Books have been published about Véronique and the V 1.

#### 2.5 Roger Launius

In 2006 I have published the following:

- \* Review of *Shades of Grey: National Security and the Evolution of Space Reconnaissance*, in *Quest: The History of Spaceflight Quarterly* 13, No. 1 (2006): 64.
- \* "Making the Most of the International Space Station." *Space Times: The Magazine of the American Astronautical Society*. 45 (March/April 2006): 8-10.
- \* "The Space Shuttle-Twenty-five Years On: What Does it Mean to Have Reusable Access to Space?" *Quest: The History of Spaceflight Quarterly* 13, No. 2 (2006): 4-20.
- \* Review of *Into the Unknown Together: The DOD, NASA, and Early Spaceflight*, in

Journal of Military History 70, No. 2 (2006): 558-59.

- \* "Contracting for NASA's History: Successes and Challenges." The Federalist. Second Series. Winter 2005-2006, No. 8, pp. 1, 3-4.
- \* "Introduction," p. 3. Destination Space. By Seymour Simon. New York: Smithsonian/Collins, 2006.
- \* "Introduction," p. 3. Stars. By Seymour Simon. New York: Smithsonian/Collins, 2006.
- \* "Introduction," p. 3. The Universe. By Seymour Simon. New York: Smithsonian/Collins, 2006.
- \* "Compelling Rationales for Spaceflight? History and the Search for Relevance," pp. 37-70. In Steven J. Dick and Roger D. Launius. Editors. Critical Issues in the History of Spaceflight. Washington, DC: NASA SP-2006-4702, 2006.
- \* Critical Issues in the History of Spaceflight. Washington, DC: NASA SP-2006-4702, 2006. Edited with Steven J. Dick.
- \* "A Shelf of Indispensable Books on the Space Shuttle." Space Times: The Magazine of the American Astronautical Society. 45 (May/June 2006): 12-13.
- \* "NASA's Underlying Depression." Space Times: The Magazine of the American Astronautical Society. 45 (May/June 2006): 19-21.
- \* "Interpreting the Moon Landings: Project Apollo and the Historians." Technology in Society. 22 (September 2006): 225-55.
- \* National Space Policy: Does it Matter? Washington, DC: The George Marshall Institute, 2006. With Richard H. Buenneke, Richard DalBello, and R. Cargill Hall.
- \* "On the Bookshelf: Indispensable Books on the Apollo Program." Aerospace America, September 2006, p. B7.
- \* Review of Deep Stall: The Turbulent Story of Boeing Commercial Airlines, in Enterprise & Society: The International Journal of Business History 7 (September 2006): 645-47.
- \* Review of Dark Side of the Moon: The Magnificent Madness of the American Lunar Quest, in Air & Space/Smithsonian, November 2006, pp. 78, 80.
- \* Review of Destination Moon: The Apollo Missions in the Astronauts' Own Words, in Quest: The History of Spaceflight Quarterly 13. No. 4 (2006): 63.
- \* "Assessing the Legacy of the Space Shuttle," Space Policy 22 (November 2006): 226-34.

I have also given the following professional presentations:

- \* "A Vast Scientific Harvest? Apollo and the Expansion of Knowledge about the Moon," 44th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, January 10, 2006.
- \* "Robots and Humans in Spaceflight: Technology, Evolution, and Interplanetary Travel," keynote lecture at 31st Annual AIAA Dayton-Cincinnati Aerospace Sciences Symposium, March 7, 2006.
- \* "Robots and Humans in Spaceflight: Technology, Evolution, and Interplanetary Travel," AIAA Distinguished Lecture, University of Minnesota-Twin Cities Student Section, Minneapolis, Minnesota, April 13, 2006.
- \* "Abandoned in Place: Interpreting the Material Culture of the Space Race," Organization of American Historians/National Council on Public History annual meeting, Washington, D.C., April 22, 2006.
- \* "Serving Society/Surviving Scorn? Presenting Science and Technology in a National Museum," NMAH History Seminar, Washington, D.C., May 9, 2006.
- \* "Civilian Spaceflight and Presidential Leadership: Still a Myth?" George C. Marshall Institute seminar on "National Space Policy: So What?" National Press Club, Washington, D.C., May 12, 2006.

- \* "A Vast Scientific Harvest'? Apollo and the Expansion of Knowledge about the Moon," AIAA Distinguished Lecture, Long Island Section, Farmingdale, New York, May 24, 2006.
- \* "Spaceflight in the 1950s," Eisenhower National Historic Site, Gettysburg, Pennsylvania, June 17-18, 2006.
- \* "Robots and Humans in Spaceflight: Technology, Evolution, and Interplanetary Travel," 4th International Energy Conversion Engineering Conference, San Diego, California, June 26, 2006.
- \* "What are Turning Points in History, and what were they for the Space Age?" Societal Impact of Spaceflight symposium, Hirshhorn Museum, Smithsonian Institution, Washington, D.C., September 19, 2006.
- \* "The Past, Present, and Future of Space Travel," Knee Society Interim Meeting, Alexandria, Virginia, October 1, 2006.
- \* "Spaceflight in the 1990s," George Washington University Graduate Class in U.S. Space Policy, Washington, D.C., October 5, 2006.
- \* "Writing Lives: Biography as a Window to Interpreting Technology" session chair, Society for the History of Technology (SHOT) annual meeting, Imperial Palace Las Vegas Hotel, Las Vegas, Nevada, October 13, 2006.
- \* Comment for "Spaceflight in the History of Technology: New Approaches" session, Society for the History of Technology (SHOT) annual meeting, Imperial Palace Las Vegas Hotel, Las Vegas, Nevada, October 15, 2006.
- \* "A Brief History of the Space Age," U.S. Government Space Sector Short Course, George Mason University, Arlington, Virginia, October 17, 2006.
- \* "Recent Developments in Spaceflight," Retired United Pilots Association, Westwood Country Club, Vienna, Virginia, October 18, 2006.
- \* "National Security Space and the Course of Recent U.S. History," Harmon Memorial Lecture at "Harnessing the Heavens: National Defense through Space" USAF Academy 21st Military History Symposium, Colorado Springs, Colorado, November 1-3, 2006.
- \* Moderator for "An Evening with Wally Schirra, Gene Cernan, and Tom Stafford," NASM, Washington, D.C., November 3, 2006.

## 2.6 Charles A. Lundquist, PhD

After retiring first from management roles at the NASA Marshall Space Flight Center (MSFC), where I was Director of the Space Sciences Laboratory, and later retiring from the University of Alabama in Huntsville (UAH), where I was Associate Vice President for Research, I have maintained a part-time affiliation with the Research Institute at UAH. Recently, my activities there have included some historical topics, although by education I am a physicist, not an historian.

The MSFC Retiree Association has made an agreement with the Library at UAH whereby historical material preserved by individual retirees is being archived at the UAH Library. Working with Anne Coleman, UAH Archivist, I continue to promote and coordinate this archiving process. The emphasis has been on organizing these archives by space program. An index of each program archive, with abstracts of individual documents, is posted online.

The Library Archives also have oral history holdings that go back to the beginnings of the Space Age. In late 2005, a decision was made to augment the space oral history collection by interviewing more early participants in the US Space Program, particularly US born participants. With Robert Middleton, I continue to implement this series of interviews. So far, more than 40 video interviews have been recorded and are accessible online.

Further, I have prepared and presented accounts of the lives of space pioneers with whom I had personal relationships. To date, memoirs have been completed about Fred L. Whipple and Rudolf Hermann. Other individuals are being considered for future memoirs. Also, some historic space events are candidates for future papers.

In summary, having attended a first space meeting in 1947 and having been an active participant in space matters since 1954, I feel it is appropriate now that I contribute to documenting the early Space Age.

## 2.7 Christophe Rothmund

In the past 12 months, my history activities were the following:

### - **SAFRAN Group Museum**

Preparation of the museum extension (600 sq. meter to be completed by 2007) that will house the workshop, the documentation and additional exhibition spaces for Sagem historical items. Furthermore, the establishment of a space-related exhibition room was decided. It will group the existing space materials (Viking, Vexin, HM7 engines, PARCA and ELEONORE missiles, satellite propulsion systems, Ariane 5 main engine system) with the former SEPR aircraft rocket engines.

### - **Archive**

Visits have been done at the French Ministry of Defence's central archive at Chatellerault. Their purpose was to locate old data relative to former LRBA activities. It was found that some projects of SEP that were managed directly by the Ministry of Defence, had given technical and management documents to this archive facility. A list of these projects and of their archive material, including archive reference and location, was started.

### - **IAF 2006**

Following the first visit to the Chatellerault armament archive, it was at last possible to retrace the history of fluorine propellant activities at Snecma and its predecessor organisations SEPR, SEP and LRBA.

### - **IAF 2001 Proceedings**

I took over the editing for the proceedings of the IAF 2001 Toulouse congress. I managed to contact most authors, but for some of them I had to convert the paper preprints into word files. Finally, all papers were successfully edited and nearly all pictures were obtained from the authors. Only two authors remained impossible to contact.

## 2.8 A. Ingemar Skoog

In the aftermath of the book "Russian Spacesuits" in 2003, 2005-2006 has required time to update material and add information on new Russian spacesuits and EVA at ISS after 2001 for an envisaged second edition of the book. The book has also resulted in lecturing on the subject space suits, e.g. at the Kiruna International Summer Space University in August 2006 in Sweden.

The preparation of the manuscript on 500 years of Swedish rocket history (1550-1970) is continuing with writing, evaluation and archive research. This also results in a lot of side activities to help museums, archives and scholars with information on various aspects of the subject.

No question that the IAA History Study Group takes a considerable time to manage. And in particular the planning for a History Plenary at the 2007 IAC in Hyderabad to celebrate the 50<sup>th</sup> Anniversary of Sputnik 1 and the IGY, the start of the space age. The support to Hervé Moulin in preparing the Bibliographic Index Book of the IAA History Symposia 1967 to 2000 (report from IAA Study Group 6.4) has been completed, and ongoing is the editing of the 2004 IAA History Symposium Proceedings from Vancouver, due March 2007.

### **3. Additional Sources of Information on History of Astronautics**

Our members have sent out from time to time interesting sources for new information on historically relevant databases. To make sure that all members have this information this is given below:

- Oral histories online at the UAH Library (from Roger Launius/Stephen Waring):

<http://www.uah.edu/library/about/department/collections.htm#oralhist>

- Interesting NASA document repository (from Christophe Rothmund):

<http://www.geocities.com/bobandrepoint/xplanespdf.htm>

- Slides from an early presentation about the Apollo programme (from Kerrie Dougherty):

<http://www.flickr.com/photos/chrispurgeon/287135333/in/set-72157594357842097/>

### **4. The New Bush Space Policy**

You may have already seen the new Bush space policy; a copy is attached (Annex 1) if not. Additionally, here is an analysis from Theresa Hitchens of CDI (Annex 2). She includes some side-by-side comparison with PDD-49 and a section on "Changes for the Better" as well as a long discussion of "conclusions."

*Inputs provided by Roger Launius.*

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A. Ingemar Skoog, Study Group co-chair  
November 30, 2006