



2007 HUNTSVILLE ALABAMA L5 SOCIETY (HAL5) ANNUAL REPORT TO THE MEMBERSHIP

The Huntsville Alabama L5 Society (HAL5) is a not-for-profit 501(c)(3), grassroots, space educational/advocacy organization that advocates for the exploration and settlement of space. Together with our parent organization, the National Space Society (NSS), we believe that space development can stimulate our world with immeasurable benefits in the areas of education, energy, environment, industry, resources, and ultimately room to grow for our society. We also believe that by educating and working with the public, the government, and private industry, we can speed up the date when routine, safe, and affordable space travel is available to everyone.

In 2007, we accomplished our goals through our free monthly program lectures; educational outreach displays; Project High Altitude Lift-Off (HALO) amateur rocketry program; helping NSS create the first-of-its-kind *Space Settlement* calendar; and through our participations in congressional lobbying, conferences and events. Most importantly, we could not have done this without your support, time, and dedication. Here is our annual report to you, our valued members.

Administrative Activities

When the schedule permitted, the HAL5 Executive Committee met bi-weekly to report on the status of the chapter and discussed upcoming and on-going project activities and the monthly program. This is coordinated through emails, and the meeting time and location is posted on the HAL5 website. These meetings are open to current and prospective HAL5 members. The website, [www.HAL5.org](http://www.HAL5.org), is used to announce HAL5 and NSS events and news, as well as a repository for HAL5 and Project HALO information; for example, a collection of our monthly program advertisement flyers since 1994.

Monthly Programs, Outreach and Special Events

HAL5 held monthly public lectures or membership meetings on the first Thursday of every month, unless there is a holiday or other conflict. The meetings were held at the Huntsville-

Madison County Main Public Library in downtown Huntsville. After each monthly program, a social with the speakers and interested members and guests was held at the local Denny's restaurant.

We started off 2007 with a "Summary of X-Prize Cup 2006" by HAL5 members who attended the event. We also used this meeting to talk about programs and special events for 2007. In March, Mr. Greg Allison, co-founder of HAL5 and Executive Vice President of NSS, spoke to us on "Orbital Space Settlement." Mr. Stephan Davis, Deputy Manager of Flight and Integrated Test Office at NASA MSFC spoke to us in April on "Ares I-X. The first step in the long journey ahead." In May, several HAL5 members attended the 2007 ISDC in Dallas, Texas. Greg Allison and Tim Pickens participated on a panel discussion on entrepreneurial space activities. Tim also gave a talk on "Low Cost Propulsion: Liquids and Hybrids." Bart Leahy gave a talk on "Targeted Marketing in Space Advocacy" and wrote several news articles on the ISDC.

In June, HAL5 held its annual election of officers before the ISDC 2007 debriefing. HAL5 decorated a display case at the Huntsville-Madison County Public library with a space-related theme promoting HAL5 and NSS. Display items included *Ad Astra* magazine, *Space Settlement 2008* calendar ads, 2008 ISDC brochure and HAL5 and Project HALO mementos.

In August, aerospace scientist and author Les Johnson gave a talk on his book "Living Off the Land in Space: Green Roads to the Cosmos." MSFC historian Mike Wright followed in September with a talk about "Historical Trends in Technology." Also in August, HAL5 built a scarecrow, named Marsha, for the annual Scarecrow Trail at the Huntsville Botanical Gardens. The astronaut scarecrow was made of old clothing painted white with some straw sticking out from the joints. Beside Marsha was a small "green bug-eyed alien" with a sign: "Earth is that-a-way."



HAL5 2007 Monthly Program Flyers

October was a busy month for us. With help from Konrad and Jackie Dannenberg and Ralph Petroff, we had a panel discussion celebrating the 50<sup>th</sup> anniversary of Sputnik I. Our panelists included Konrad Dannenberg, Ernst Stuhlinger, and Apollo-era

engineer Dave Christensen. Guest MC Ralph Petroff did an excellent job moderating the event and showing off his full-scale replica of Sputnik and old newsreel footage. The event also featured an Explorer I replica on loan from NASA and a “Sputnik Medal” awarded to HAL5 member Ron Creel and the Apollo Lunar Rover Team by the Cosmonautics Federation of Russia during Ron’s trip there in 2004. This was our best program night ever at the Huntsville library, with 122 attendees. Also in October, HAL5 participated in the Sally Ride Science Festival at UAH and in the von Braun Astronomical Society (VBAS) Astronomy Day.



October 2007 Monthly Program – 50<sup>th</sup> Anniversary of Sputnik I

In November, Ed Kiker gave a talk on “Growing into Space: The Youth Space Movement. Introduction to Federation of Galaxy Explorers.” We continued the celebration of 50 years in space in December with a presentation by Craig Russell of American in Orbit-50 Years on “Recreating the Flight of the First American to Orbit the Earth.” The goal is to re-build the Friendship 7 Mercury capsule that carried John Glenn into space. We wrapped up 2007 with our annual Christmas party.

Space Settlement Calendar



To promote a future of humans living and working in space, NSS initiated a contest for artwork to be used in the first *Space Settlement* calendar. The calendar features twelve original never-before-seen arts illustrating humanity's future in space. HAL5 is one of the

sponsors and our members, Bart Leahy, Ronnie Lajoie and Yohon Lo, are key members of the calendar committee; they were involved in the design, content, and layout of the calendar. The *2009 Space Settlement calendar*, with twelve additional new works of art, is available for purchase from HAL5.

Project HALO

Project HALO team meets on every Wednesday night to work on the Tube Launch 1 (TL-1) amateur hybrid rocket. TL-1 will be tube launched and has an altitude goal of 100 km. We had a successful firing of the heavy-wall test motor on October 20<sup>th</sup>. The 20-second burn provided good thrust profile data that will allow us to size our tube launcher. The sub-scaled launcher test also started in early 2007.



Project HALO TL-1 Flight Motor Static Test #3

Public Relations

The Publicity Committee views its mission as threefold: To penetrate the consciousness of the general public so that they are aware of the large popular support for an active national space program, to elicit their help and participation in our programs, and to inform our local membership of our meetings and activities. All notices are posted on the available print and electronic community bulletin boards and program flyers are placed in libraries, bookstores, and local schools. HAL5 and individual members supported the STEDTRAIN committee of Huntsville Association of Technical Societies (HATS) with contributions to help fund K-12 teacher proposals in science and technologies for their students.

Membership

The chapter annual dues for “Regular” members were maintained at \$16 in anticipation of a future regional conference, new educational project, and work on Project HALO. Dues for “Special” members were maintained at \$10. “Special” members include students, seniors, retired people and unemployed. All HAL5 memberships expire at end of each year, new, non-renewal members dues are prorated based on the date they join. Thirty-six of 48 expired members and 7 past members renewed their membership, plus we added 8 new members in 2007. We ended 2007 with 51 members. We also continue to email and interact with non-renewing expired and past members. Sixty-three percent of the 2007-paid HAL5 members are current NSS members.

2007 HAL5 Officers (June 2007 to June 2007)

President:	Yohon Lo
Vice President:	Sue Thorn
Treasurer:	Ronnie Lajoie
Secretary:	Kathleen Craig
Public Relations:	Evelyn Sabino
Education Outreach:	David & Emily Hewitt
Membership:	Adam Martin

In closing, we thank you for your continued support in our endeavors to educate and to promote a spacefaring civilization. We could not have done this without your support, time, and dedication. We welcome your inputs and suggestions on how we can better serve you and our community. See you at our next gathering!

- 2007 HAL5 Executive Officers