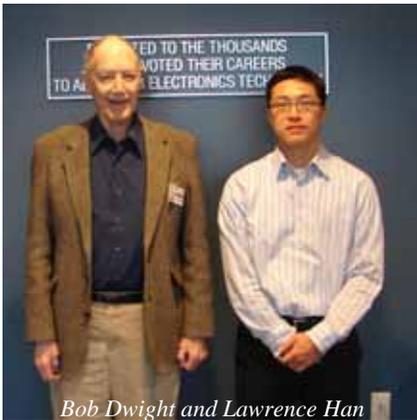


Robert L. Dwight Scholarship Winners



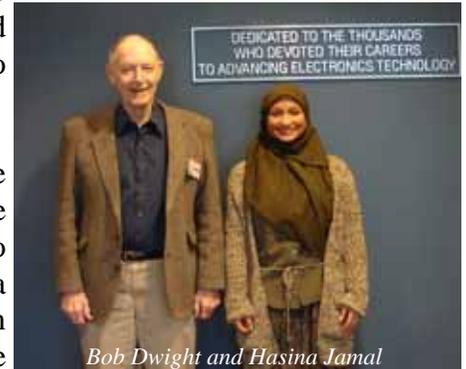
Bob Dwight and Lawrence Han

In 2006 the Robert L. Dwight Scholarship was expanded to include two students at the University of Maryland, one at the College Park campus and one at the University of Maryland Baltimore Campus. Both scholarships are for upper classmen in the field of engineering and cover a single year of study.

This year the scholarship at College Park was awarded to Lawrence Han who is a junior studying for a degree in electrical engineering. While writing software for several business consulting organizations, Lawrence decided that engineering was his real interest. He started by taking courses at Montgomery College while working and then became a student at College Park. Toward his goal of a career in space technology he worked last summer for NASA's Goddard

Space FlightCenter on spacecraft attitude control systems and hopes to continue working in this field.

Hasina Jamal is receiving the Robert L. Dwight Scholarship at the University of Maryland Baltimore Campus this year. She is a junior in the field of computer engineering and wants to apply computer technology to medical problems such as impaired vision. The goal would be to implant a miniature computer chip to replace damaged functions of the eye retina. In the last two years Hasina has worked on three research projects at the University of Maryland.



Bob Dwight and Hasina Jamal

Wurzburg Update...

I flew out to Colorado at the end of October to supervise the first stage of the Giant Wurzburg project. The antenna was situated on the Table Mountain Field Site and Radio Quiet Zone just north of Boulder. A crew from World Wide Aircraft Recovery disassembled the Wurzburg, packed it on two flat beds and transported it to Nebraska for storage. We missed Colorado's first major snow storm by less than 24 hours! I expect it to remain in storage until Spring 07.

The Wurzburg is in fantastic condition considering its long spell on Table Mountain. Traces of the original WWII paint and stencils in gothic lettering remain. Most of the paint from its stint with Department of Commerce has eroded away but enough is left to give us an idea of how it looked in the 1950's. I contacted a conservator in Nebraska to take a look at it and offer suggestions how to protect it once it arrives in Maryland. *(Continued on page 3)*

Letter from the President

As I end my third term as President of the Historical Electronics Museum, this will be my last letter as President.

A number of significant changes have taken place in the past three years. I cannot take credit for all the positive things that have happened, but I hope I accomplished a few things. Some of these were planned. One of my first goals was a rewrite of our Mission Statement. This seemingly simple task took several months to accomplish, but the result gives a much clearer picture of our goals to the public. We now have wireless internet access throughout the museum, thanks largely to our volunteers. We are working to update our artifact and library databases, and eventually plan to have these available on line. Some events were unexpected. In 2004, the Museum had to replace our Director and Assistant Director, who left to advance their professional careers. We hired our present Director, Mike Simons, who has taken the lead in a number of areas, including increased publicity, developing a number of special events on short notice, making valuable contacts in the community, and fundraising. In 2005, we learned of the coming of yet another hotel in the neighborhood. The construction of the new Hilton caused the road in front of the building to be torn up for many months. After this period of inconvenience, we ended up with a completely re-landscaped front yard. A casual entry in our visitors' log resulted in the Museum launching a sizable effort to acquire one of the few WW II German Würzburg antennas in existence.

Much of 2005-2006 was concerned with working through a Governance Museum Assessment Program, one of a number of MAPs run by the American Association of Museums. These are designed to help museums improve their operations in various areas. We had gone through a somewhat simpler Collections MAP several years ago. The Governance MAP is aimed at evaluating and improving the effectiveness of our Board of Directors. Since most of our Board members are not museum professionals, I think we found the self-assessment exercises to be quite helpful. This activity prompted us to update or create several new working documents, including a detailed

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The Mission of the Historical Electronics Museum

Our mission is to educate, inspire, and excite the interest of students and the general public. We carry it out by presenting to them our electronics heritage through the collection, preservation, and display of significant artifacts and literature and the commemoration of the creativity and dedication of pioneers and all workers in the field of electronics. We focus on electronics developed for the defense of our country, the technologies that made them possible, and the commercial products derived from them.

Leo Young 1926-2006

I note the passing of Museum Life Member Leo Young on September 14. Leo came to the US from England in 1938, having previously narrowly escaped from his native Austria. He worked at Westinghouse, receiving his doctorate in electrical engineering from Johns Hopkins University, then at Stanford Research Institute, the Naval Research Laboratory, and was director of research for the Office of the Secretary of Defense. He retired in 1994. He was co-author of the still-popular text Microwave Filters, Impedance-Matching Networks, and Filter Structures. He was President of the IEEE in 1980. I knew Leo from various activities with the IEEE Microwave Theory and Techniques Society, including my contributing to articles in the 2002 MTT-S Transactions anniversary issue, of which Leo was Editor. Leo made several valuable contributions to HEM and the MTT historical collection over the years.

Steve Stitzer

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Annual Plan to guide our staff in accomplishing our strategic goals. This MAP will end with an on-site visit and evaluation by AAM assessors in early 2007.

Our new web page continues to produce more hits, and a number of visitors have told us that they learned of our existence through the web page. I expect to see the web page grow in usefulness as more technical content is added over time. The Museum has a unique collection of artifacts and documents that we want to make available to as many users as possible, including those not able to visit us in person. This not only serves our mission of educating the public, but enhances our status as the “go to” source for information on the history of defense-related electronics.

I would like to thank the Board of Directors for giving me the opportunity to try to make some positive changes in the Museum and for supporting me during the past three years, especially since I could not devote more time to this activity, because I still have a full-time “real” (i.e., paying!) job. I acknowledge those Board members who have carried out a number of tasks themselves, such as acting as Gallery Leads, and overseeing the growing YESS program. I thank the volunteers who continue to contribute by building and maintaining our hands-on exhibits, for opening the museum on Saturdays and for other special events, and for manning the museum’s amateur radio station W3HEM. And I thank the individual, technical society, and corporate contributors to the Museum, especially Northrop Grumman, for supporting our activities. These contributions come in many forms, including cash, artifacts, documents, and information.

Finally, I thank all the professional staff who have worked with me in the last 3 years, Kate Marks, Kristin Qualls, Tiffany Davis, Lisa Conner, and present staff members Director Mike Simons, Assistant Director Gwen Nelmes, Registrar Becky Glasby, and Administrator Anne Mech. These folks work hard to keep us volunteers in line.

I have been closely connected with the Gallery Leads, the Collections Committee, and the HEMARC amateur radio club, and I expect to continue working with them as a volunteer. I expect to continue to contribute occasionally to the Newsletter, and I encourage our readers to contribute your thoughts and experiences as well.

I trust you will continue to support the Museum and the incoming President, Rol Anders, the new Board, and staff. See you at the Museum!

Steve Stitzer

(Continued from page 1)

On our end I have tendered bids for the landscaping and mount construction. A structural engineer, through a generous in-kind donation, designed the mount system. Permit applications are pending with Anne Arundel County and the Maryland Aviation Administration. I expect the permitting process to be complete by start of the New Year. I am hoping to break ground for the mount in February.

There is more information on the history of the Wurzburg. I recently spoke with a Carnegie Institute of Washington retiree. He remembers around a dozen antennas brought from Norway by the National Bureau of Standards and given to various researchers. In 1947 the Central Radio Propagation Laboratory (CRPL), a branch of the National Bureau of Standards, tasked with the study of solar radio noise, acquired two Wurzburg antennas for its Sterling Va. research facility. A third was added shortly thereafter, presumably part of the group from Norway. Other Wurzburg antennas went to the Naval Research Laboratory (subsequently returned to Germany) and another to the Carnegie Institute of Washington (destroyed in the 1970’s).

In 1947 the study of solar radio noise was a new field. Grote Reber built the first radio telescope in his backyard in 1937. In the winter of 1947 the first attempt by the CRPL to study solar noise used the SCR-270. It was replaced by a Wurzburg that following spring. Another reason it is fitting the two antennas are to be displayed together at HEM.

In 1952 the Sterling facility, once a radio quiet zone now home to Dulles International Airport, was moved to Boulder, Colorado and the three Wurzburg antennas were installed on Gunbarrel Hill just outside of Boulder. They were painted red, white, and blue. It appears they were used through the end of the International Geophysical Year in 1958. New equipment was installed on Table Mountain in 1959 where the trail of the Wurzburg goes cold. Photographs of the Wurzburg antennas taken in Sterling and on Gunbarrel Hill show the mounts constructed to enable the antennas to follow the path of the sun. When we picked up the Wurzburg we found its mount but it did not look like the mounts pictured earlier. Perhaps this antenna had a life after 1958.

Mike Simons, Director

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**ADMISSION IS FREE!
OPEN TO THE PUBLIC**

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The museum's location is:

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(Next to the Marriott Hotel)**

(This is not a mailing address)

The museum hours are:

*Monday through Friday
9 a.m. to 3 p.m.
Saturdays
10 a.m. to 2 p.m.
(and other hours by appointment)*

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