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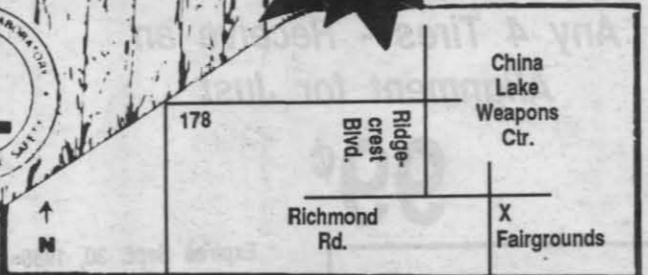
Why do we give away **FREE SPAS?** Because we know that after you have attended a Mr. Spa product presentation and entered our contest, you won't allow yourself to buy an inferior Spa for more money. Come and see how you can get the **best built, best looking, energy efficient Spa at any price.** Mr. Spa himself, Gerry Stein, will be on hand to personally give away up to **20 SPAS! FREE!**

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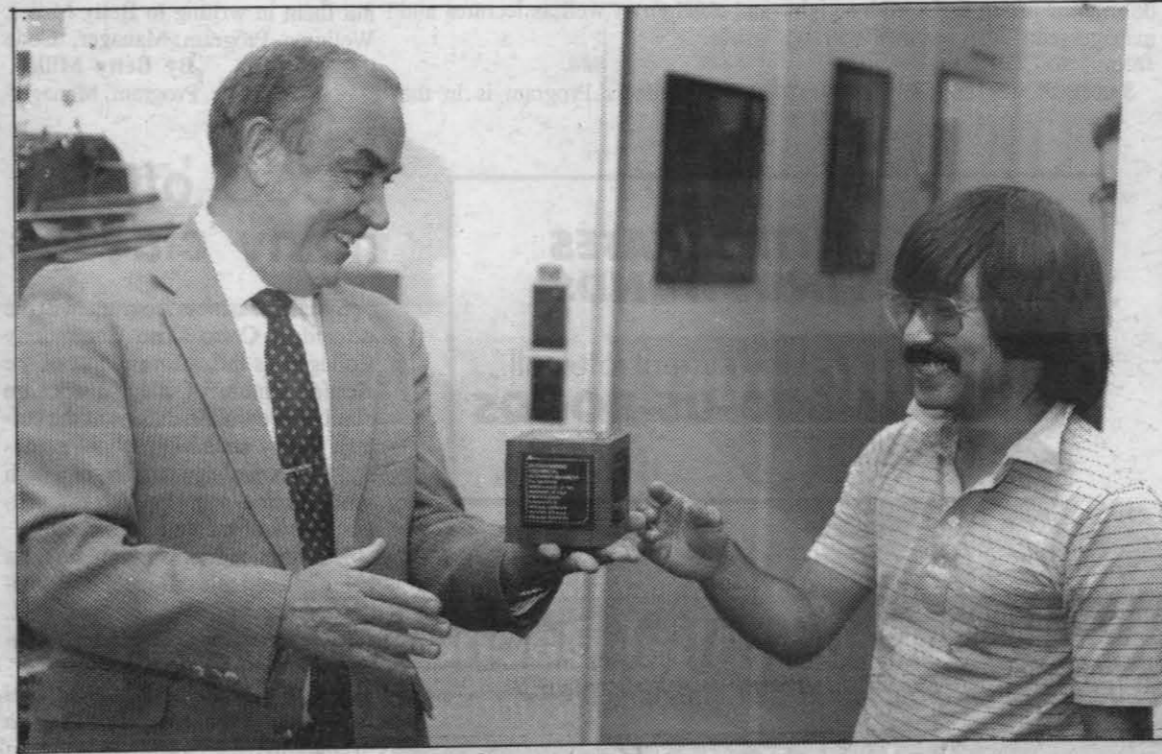


NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

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Talented scientist earns TD award



COMPOUND INTEREST — Gerry Schiefer (left), technical director, is happy to present the Technical Director's Award to Dr. Kelvin T. Higa, Optical and Electron Materials Branch, Chemistry Division, Research Department, for Higa's accomplishments in the synthesis of more than a dozen new compounds of tellurium and cadmium.

"You've only been here two years, and it's already proven that we made a good decision by hiring you," Gerry Schiefer, Naval Weapon's Center (NWC) technical director, declared to Dr. Kelvin T. Higa, Optical and Electron Materials Branch, Chemistry Division, Research Department, as he presented Higa with the Technical Director's Award for outstanding accomplishments in the synthesis of new organometallic precursors to mercury cadmium telluride infrared detector materials.

In his letter nominating Higa for the award, R.L. Derr, head, Research Department, noted, "Dr. Higa arrived at NWC just two years ago in April 1986 and spent his first year here as a Postdoctoral Fellow of the American Society for Engineering Education. He was so unusually productive and brought so much enthusiasm, skill, knowledge and expertise with him that he was offered a permanent position in the Chemistry Division even though his position at the time was temporary and the Chemistry Division was not actively recruiting organometallic chemists. In short, we had discovered such a talented scientist that we could not let him get away."

Mercury cadmium telluride is the material of choice for fabrication of infrared detectors for missile seekers, surveillance and night vision. In 1986, the biggest stumbling block to production of the material and structures made from the material was the high cracking temperature (400 degrees centigrade) of the organometallic precursors from which films of mercury cadmium telluride were made. High temperature leads to mercury evaporation from the film, diffusion of elements between layers and inability to fabricate structures with sharp interfaces. Higa conceived of new compounds which would decompose at lower temperature and still have enough vapor pressure to be useful for production-scale manufacture of mercury cadmium telluride. Higa has synthesized more than a dozen new compounds of tellurium and cadmium and has filed four patents. In two years, these compounds have gone from research ideas to commercial products.

After receiving his award, Higa said, "I think a lot of credit is due to Dave Harris and Bob Schwartz because they gave me the latitude to change the direction of the research to the area I felt had the greatest potential—new source compounds for the metal organometallic chemical vapor deposition of mercury cadmium telluride. I have enjoyed NWC because of the facilities and the personnel in the Chemistry Division."

Change in church schedule
Chapel to get new roof

By Peggy Shoaf
 Editorial Assistant

Starting this weekend, many of the Catholic and Protestant religious programs will temporarily be at a different place and time announced LCdr. (Chaplain) Tony Casimano, command chaplain, Naval Weapons Center's (NWC) All Faith Chapel, because the chapel will be receiving a new roof.

"The present roof of the chapel is not guaranteed to be earthquake proof. Instead of trying to effect repairs on the present roof, it was decided to completely remove it and replace it with a roofing structure that would withstand an earthquake if one should unfortunately hit," said Father Tony.

According to the chaplain, one section of the roof will be removed at a time and then replaced before going on to the next section because the structure will not sustain taking everything off at the same time. Due to this slow process, the work will take until the middle of October to finish.

According to Father Tony, the weekday schedule for Catholics will not be affected. Mass will still be heard from 7:30 to 7:50 a.m. in the Blessed Sacrament Chapel at 11:35 a.m., and confessions will still be heard by appointment. On Sundays, confessions will be heard from 7:30 to 7:50 a.m. in the Blessed Sacrament Chapel followed by an 8 a.m. Mass. A 9 a.m. Mass will also be held but will be in the East Wing.

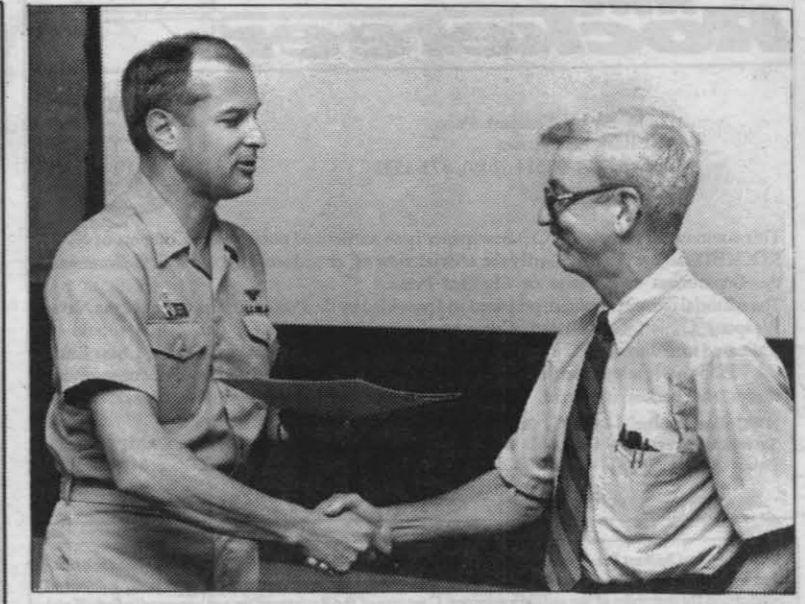
The choir practice will be held in the Blessed Sacrament Chapel at 7:30 p.m. on Thursdays.

Protestant services will be held at 10:30 a.m. in the NWC Theater and choir practice will resume on Sept. 7 in the East Wing.

Islamic and Jewish services will not be affected by the repairs, Father Tony said.

"One thing I would like to emphasize," noted the chaplain, "is this is only a temporary schedule. As soon as the roof replacement is complete, the regular schedule will go back into effect.

"Because of the work being done on the main chapel, the wedding schedule has been influenced. With this in mind, large (over 60) (Continued on Page 7)



OUTSTANDING FEDERAL SERVICE—Capt. John Burt, NWC Commander, presents the Navy Meritorious Civilian Service Award to Phillip G. Sprankle, advanced concepts consultant, Weapons Systems Development Division, Electronic Warfare Department. Sprankle played an integral role in three successful anti-radiation weapons. (SEE STORY, PAGE 3)