



EXAMINES HELMET—Mrs. Tatiana G. Anodina, Deputy Director, Science and Technology Department, Ministry of Civil Aviation, USSR, examines a space helmet during a recent visit to MSC. Looking on approvingly were Aleksey I. Semenov, First Deputy, Ministry of Civil Aviation, USSR and other officials.

ESRO to Develop Sortie Laboratory

NASA has been informed that the European Space Research Organization (ESRO) voted recently to authorize the establishment of a "Special Project" to develop a sortie laboratory to fly with NASA's reusable Space Shuttle in the 1980's.

The sortie laboratory is conceived as having two elements, a pressurized manned laboratory module and an external unpressurized instrument platform or pallet, suitable for conducting research and applications activities on Shuttle sortie missions lasting seven to 30 days.

The sortie laboratory module and pallet will be carried into orbit in the payload bay of the Shuttle orbiter and will remain attached to the Shuttle throughout the mission.

At the end of each mission the orbiter will make a runway landing at the launch site and the laboratory will be removed and prepared for its next mission.

The sortie lab will have the flexibility to accommodate both multidiscipline complements of experiments and complements devoted to a single scientific or applications discipline.

The laboratory module will house experimental apparatus, data processing equipment, electrical power equipment and environmental control system, and crew control stations.

AIAA Highlights Space Shuttle

The American Institute of Aeronautics will present a "Space Shuttle Program Status Review" Tuesday, February 20, 1973.

A condensed summary of the Space Shuttle Presentations made on January 9, 1973 at the AIAA Annual Meeting and Technical Display in Washington, D. C. will be given by MSC officials.

Robert F. Thompson, Manager of the Space Shuttle Office will act as program moderator for the evening.

The staff of up to six scientists and engineers will eat and sleep in the Shuttle orbiter, but will carry out their experimental activities in the laboratory module working in a normal shirtsleeve environment.

Pallet experiments will normally be remotely controlled from the laboratory. The pallet will be the mounting platform for large instruments such as telescopes and antennas that need wide viewing angles and direct exposure to space.

The countries that have so far agreed to participate in the Special Project for development of the sortie lab are Germany, Italy, Belgium and Spain. It is understood that additional countries may participate as well.

It has been estimated that the sortie laboratory will cost between \$250-300 million, to be funded by the participating nations of Europe. ESRO is at the present time instituting studies of the preliminary design of the sortie laboratory and expects to complete the studies in December, 1973.

Assuming that cost studies confirm the general validity of current cost estimates, it is intended that the ESRO Special Project will be continued on through the final design and development of the sortie laboratory.

Presentations will be made by Maxime A. Faget, Director of Engineering and Development; Donald K. Slayton, Director of Flight Crew Operations; Howard W. Tindall, Director of Flight Operations and Joseph P. Allen, Astronaut.

The program will take place at the Holiday Inn on NASA Rd. I beginning at 6:30 p.m. The cost is \$5.00 per person and includes a buffet dinner.

For reservations call 483-4971.

MIT's Draper Lab Gets Contract

MSC has awarded a \$1,375,484, cost-no-fee contract to the Charles S. Draper Laboratory of the Massachusetts Institute of Technology, Cambridge, to provide technical support for guidance, navigation and control in the Space Shuttle Program.

The work statement calls for MIT to provide . . . "technical support in the definition, performance analysis and simulation of the Guidance, Navigation and Control (GN&C) Subsystem," and to provide technical support in the development and verification activities to assure compatibility of designs."

As relates to the development of the GN&C system, MIT will receive technical direction from Space Division, North American Rockwell Corporation, (NR) Downy, California. NR was named to build the orbiter vehicle and to integrate component parts of the Space Shuttle.

Hardware procurement will be negotiated by NASA under a separate contract.

The MIT contract is to remain effective through August 3, 1974.

The Space Shuttle will be developed over the next six years. Horizontal test flights are planned to begin in 1976, and manned orbital test flights are scheduled in 1978. The complete Shuttle system is to be operational by 1980.

The Space Shuttle will be the first reusable space vehicle. It

(Continued on Page 3)

Amateur Radio Club Aids Cooper Family

MSC's Amateur Radio Club played a great part in obtaining needed information from the scene of the accident which took the life of flight controller John H. Cooper.

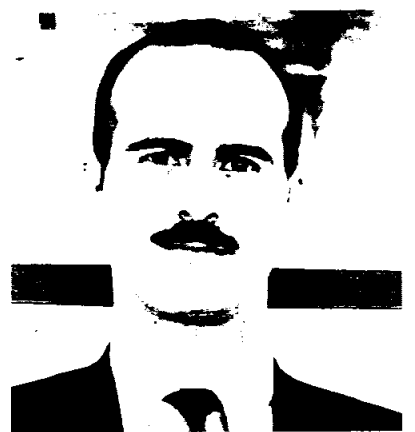
Cooper, who had been employed at MSC for approximately 8 years, was on a mountain climbing expedition in Argentina at the time of his death.

On Sunday afternoon, February 4, the day Cooper was scheduled to return home, his wife, Sandra, received word that her husband was killed on Mt. Aconcagua.

At 2:00 p.m. Monday, February 5, 1973, a request was made by a friend of the Cooper family for information verifying the accident and, particularly, the identity of Cooper.

The requested information was obtained from Argentina in approximately one hour, using amateur radio.

The communication relay link included amateur stations in Clear Lake City, Lufkin, Texas, and Buenos Aires, Argentina. The amateur operator in Buenos Aires telephoned the U. S. Embassy and "patched" the voice of the senior official through to the station in Lufkin, which is operated by a Catholic nun, Sister Mary Emmanuel at the Monastery of the Infant Jesus. Sister Mary, in turn, relayed the information—which verified that it was Cooper who



JOHN H. COOPER

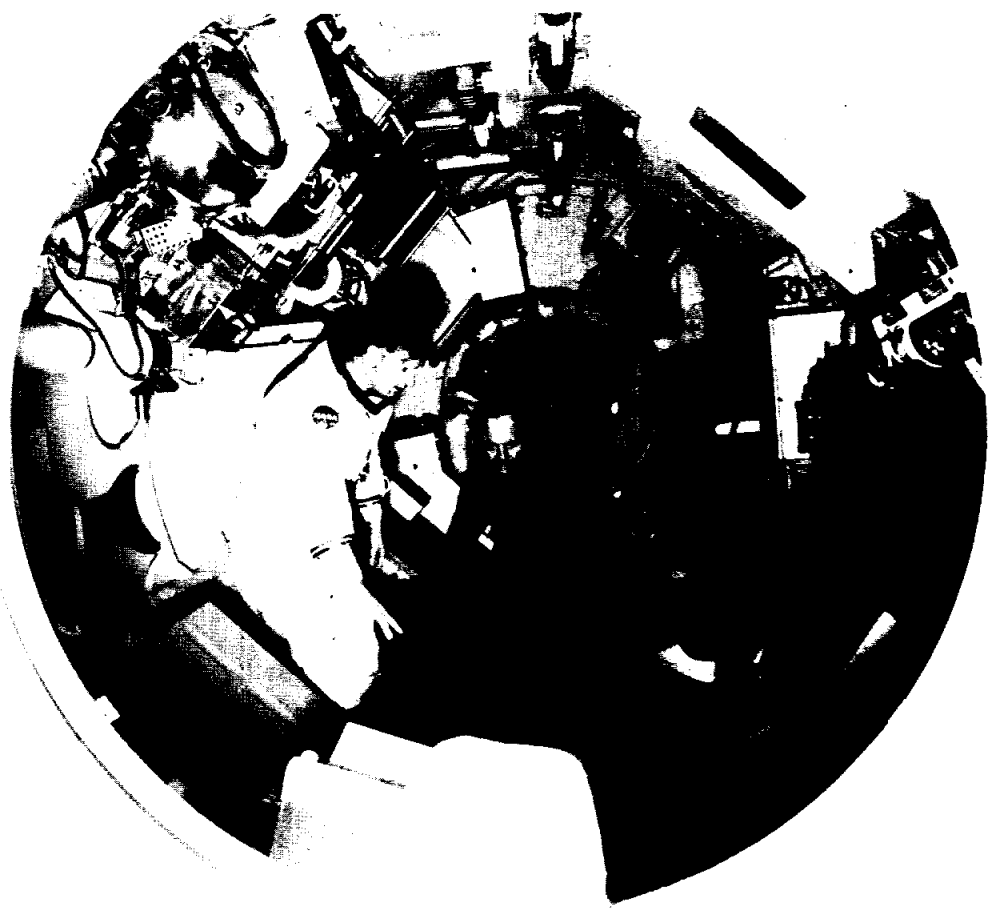
was found frozen—to the MSC Amateur Radio Club.

This verification was released to the Cooper family, who requested that in lieu of flowers, all contributions be sent to the Memorial Fund for the Mentally Retarded. The fund is set up at Webster State Bank; the account number is 2-15405.

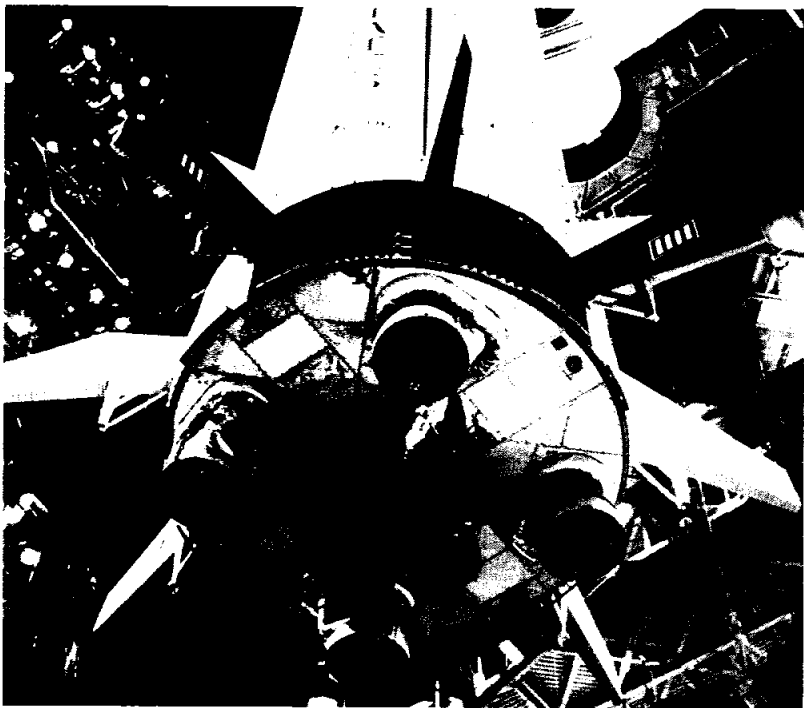
MSC Secures Radar

In order to improve traffic safety at MSC, the Security Branch has obtained an excess speed analyzer (radar) to be used by the protective services contractor.

The radar was recently calibrated and was scheduled to be placed on the MSC streets on or about February 15. Operators are undergoing training.



INSIDE THE MDA—Seen inside the Multiple Docking Adapter are Astronaut Don Lind (left) and Senator Frank S. Moss, (right) Chairman of the Committee on Aeronautics and Space Science of the United States Senate. Lind is explaining to Senator Moss the process of a Skylab simulation.



SKYLAB PREPARATIONS—A low-angle view of the first stage of the S-1B, launch vehicle on the first manned Skylab mission, during pre-launch preparations in the Vehicle Assembly Building, Launch Complex 39, Kennedy Space Center, Florida.



EXAMINING MODELS—These students from Burbank Elementary School for the Blind examine Space Shuttle Models as MSC's Lecturer-Demonstrator Jim Poindexter explains their functions.

Employees Form Shooting League

Last October, a group of MSC employees formed a skeet shooting league and began their first organized competitive shooting.

The majority of shooters had no previous experience in skeet shooting. Six teams were organized and the name "MSC Claybusters" was adopted for the league. Team shooting was conducted each Tuesday at 7:30 p.m. at the Winchester Gun Club range in Pasadena.

Throughout the league, interest and enthusiasm were high and competition among the teams was keen. At stake were trophies for the top three teams, the most improved shooter and the top gun.

Bill Milligan took top gun honors by breaking a total of 468 birds out of a possible 500. The most improved shooter award was presented to Jerry Suddath who showed a 30.5 percent improvement in shooting skill.

Members of the first place team were: Charlie Parker, Craig Hildreth, Bill Milligan, Frank Grills and Darrel Clement.

Second place team members were: Jack Williams, Charlie Lander, Ernie Randall, Jim McQueen, John Hatcher.

Third place team members include: Ken Suit, Jerry Suddath, Rudolph Saldana, Chauncy Park, and Welby Redwine.

Because of the enthusiasm shown in the first league, plans are being made for a second league. Anyone interested in skeet shooting should contact Bill Chambers at 483-4771.



RESPONSIBLE EMPLOYEE—Stephen P. Grega (above) has been assigned to MSC's Crew Safety and Procedures Branch of the Flight Crew Support Division since June of 1965. During the Apollo-Soyuz Test Project scheduled for 1975, Grega will be responsible for the rendezvous and docking procedures and will make sure the crew is adequately trained on nominal and descent aborts.

MSC Selects Technology Inc.

Technology Incorporated of Houston has been selected for the award of a \$794,000 one-year contract to provide operational and research support for Life Science laboratories at MSC.

Provisions of the cost-plus-award-fee contract call for Technology to provide operational, maintenance, and research support in MSC laboratories effective February 1, 1973 through January 1974. These services have previously been performed under several separate contracts.

Secretaries Swing To Music

The NASA Clear Lake Chapter of the National Secretaries Association will swing into the International Program of the Year—Fine Arts—by attending a concert presented by the University of Houston Symphony Orchestra at the University Campus on Tuesday, February 27, at 8:30 p.m. A dinner meeting will precede the concert at 6 p.m. in the Spindle Top Room in the University Center. All secretaries are invited to attend. Car pools will be formed in the NASA area. For information call Virginia Thompson, extension 5473.

JIMMY WARREN MEMORIAL BOWLING LEAGUE

Team Standing	W	L
Ball Busters	45	31
Jokers	45	31
Ascenders	44	32
Hexes	44	32
Pin Pounders	43	33
Strikeouts	41	35
Spoilers	37	39
Chokers	35½	40½
Clowns	35½	40½
Mixers	34	42
Alley Oops	33	43
Team No. 9	33	43
Hertz	32½	43½
Fabricators	29½	46½

High Team Set (3 games)	2-1-73
Alley Oops	3017
2-8-73 Fabricators	3305
High Individual Set	
2-1-73 Dan Kennedy Fabricators	684, 2-8-73, Dan Kennedy
High Team Game	
2-1-73, Chokers	1123
2-8-73, Fabricators	1161
High Individual Game	
2-1-73, Bob Harris-Clowns	258
2-8-73, Jim West, Ascenders	279

Game	Name	Set
*215-236-236	Dan Kennedy	687
234-213	Dan Kennedy	639
214-254	Al Spivey	631
203-233	Gail Blalock	613
209-221	Mike Bankey	608
217	T. Bruce	608
224-223	Frank Morgan	605
248	Jim Pavlosky	602

*Outstanding games and series



CRYOGENIC TEST TANK—Twenty-two foot long cryogenic test tank (shown here in pressure vessel stage) is capable of carrying 120 times as much liquified hydrogen as the Apollo tank beside it. Under development for NASA at Beech Aircraft's Boulder Division, the tank has been completed and is undergoing testing.

ROUNDUP

NASA MANNED SPACECRAFT CENTER HOUSTON, TEXAS

The Roundup is an official publication of the National Aeronautics and Space Administration Manned Spacecraft Center, Houston, Texas, and is published every other Friday by the Public Affairs Office for MSC employees.

Editor: Janet Wrather

Photographer: A. "Pat" Patnesky

*K. on Clairwood - 1 block North of Bellard 6500 Ch. Road
 CAB-8311, #293 ROUNDUP Cottage 9 (Girls' side) Bennett - Ho.
 Mrs. Saucier - step at office Sat. 5:44/73*



Seen in the photos are employees of the Flight Support Division, Flight Operations Directorate. Bob Williams and Larry Kauffman (above) are at work in the Simulation Control area. Team members, (below) are in the MOCR looking at displays of data from the Ground Support Simulation Computer. FSD is responsible for the design, implementation, checkout, and operations of a simulation system consisting of the GSSC and the Skylab Process Control Unit (SPCU). The simulation system is used to Facilitate Flight Control Division in their training requirements for upcoming missions.



Tax Refund Can Be Ready-Made Saving

Your income tax refund is ready-made savings—ready to be tucked away as a nice lump-sum payment on tomorrow.

It's probably what you've had in mind all along, isn't it? Getting this far without missing the money, and then making sort of a giant step toward whatever it is you're saving for.

One of the easiest ways to make sure you really do it, of course, is to take your refund check and turn it into a Series E Savings Bond. (Or maybe several Savings Bonds!)

Series E Bonds earn 5½% interest, compounded semiannually,

when held to maturity of 5 years, 10 months (4% the first year). Your money is guaranteed safe—Bonds are replaced free if lost, destroyed or stolen.

Speaking of income tax, you may defer the payment of Federal tax on your E Bond interest until you cash your Bonds or they finally mature (And the interest is exempt from state and local income taxes!).

So don't miss such an ideal opportunity to add to your savings. Turn your tax refund check into growing Savings Bonds dollars today. You'll be doing something nice for your future.

United Buying Price List Available

Numerous MSC employees have queried the MSC Employees Activities Association on the availability of the United Buying Service Automobile Price List. This list can and will be available on site if the following rules are met: The EAA District Representative will allow on-site employees to borrow the price list for a limited time providing the borrower is willing to leave some sort of guarantee (e. g., driver's license, car keys, etc.) to insure prompt return of the price list.

Also, a time limit will be set by the District Representative at the time the price list is borrowed.

This time limit must be strictly adhered to.

The MSC Employees Activities Association has placed copies of the United Buying Service Automobile Price List at the following locations:

Bldg.	EAA Dist. Rep	Rm
2	Bill Forsyth	248
4	Sandra Franks	248
10	Charles Gardener	148
13	James McBride	217
30	Larry Davis	3014
33	Bob Richmond	113
45	Helon Crawford	246
419	Loreta Bradley	149
135	Verna Brown*	202

* (EAFB)

Roundup Swap-Shop

Swap Shop advertising is available to MSC and on-site contractor personnel. Articles or services must be offered as advertised, without regard to race, religion, sex or national origin. Ads should be 20 words or less, including home telephone number. Name and office code must accompany, but need not be included in ad copy. Typed or printed copy must be received (AP3 Attn: Roundup) by Thursday of the week before publication.

MISCELLANEOUS

30-30 Marlin Rifle model 93 in collector cndn, \$200, Hughton 483-3725 or 337-1839 after 5 P.M.
 Kenmore sewing machine w/ cabinet, xlent cndn, \$30. 534-6489.
 Portable belt sander, SKIL, 4 inch, \$40. 944-8717.
 Outboard motor, 3½ hp, Johnson, good cndn, \$50. Mike Puffer, 534-5648.
 Green-gold-white cut velvet early American style chair, li nw, \$50 or best offer.
 Weber Spherical bar-b-cue grill, blc, lrg, \$5 or best offer, Queen Anne Lamp table, drk brown, single drawer \$30 or best offer, Goodman, 488-1458.
 4 Mobile home tires and rims, size 14.5 inch rims, \$40 total, Lee 944-8323.
 5 mens' suits, coat sz 38 short, waist 34" all for \$20. Lee, 944-8323.
 100% human hair fall, black, cost \$60, will sell for \$30, twin bed including mattress, box springs, frame, xlent cndn, \$40, dressmaker sewing machine, xlent cndn, incl all accessories, cnsl mdl, used twice, cost \$225, will sell for \$150, GE portable b/w tv, 19", nds minor repair, \$25, Packard Bell portable color tv, 19", xlent cndn, less than 1 yr. old \$250 644-6988 aft 5:30.
 Gibson 335 Guitar w/ case, super reverb amplifier, cost \$1175, sell for \$800, 473-4777.
 Spinnet Baldwin Organosonic Stereo Organ w/ bench, French Provential cherry w/ decorative back, tab settings across entire keyboard, precession settings, one octave foot pedals, ear phone jack, xlent cndn, \$750, Saucier, 479-4354.
 72 tailgate, new green, fits 64-72 Ford styleside pickups, new cost \$60, sell for \$45, Martin, 332-4018 or x 3771.
 Sears Manuel Mimeograph machine, used 8 times, 15 stencils and ink incl, \$65, 333-3291.
 Honda 305 headlight, tank seat, scrambler pipes, other parts, good cndn, Mark, 488-5037.
 Golf clubs, 3 woods, 4 irons, dead eye patter, couple doz balls, tees, red/blc bag, wrist score keeper, gd buy at \$50. White, 488-1024.
 Minolta 16mm pocket camera, electrical eye, flash gun, filters, carrying case, etc, over \$100 new, good buy at \$50, Minolta slide projector for 16mm slides, neat size, would work for new instamatic pocket camera slides, w/ case, \$25, White, 488-1024.
 Binoculars, 7x50 center focus, xlent cndn, \$20, White, 488-1024.
 Baby Bed complete w/ mattress, nw \$80, xnlnt cndn, asking \$25, 944-8717.
 Set of beginners golf clubs, w/ leather bag, xnt cndn, \$40, 554-3620.
 Colt Det Spl, .32 cal, w/ Herrett's combat grips, holster, 150 rds ammo, reloading dies, prft, sell complete \$95. 488-3966.
 Pr ladies cowboy boots white w/ gold inlaid scroll, size 9A, li nw, \$15, Furniture & antiques, incl grandfather and mantle clocks, going overseas, Major Snyder, 483-6381 or 488-5345 aft 6 pm.
 23' Glastron Twin 120 1/0, radio/depth finder, Tandem trailer, electric winch, 333-2342 day, 334-3323 night.
 Go-Kart, 125cc Chrysler Westbend Engine, \$150, David, 471-0770.
 3 lawnmowers, 2 rotary, one reel, cheap Thompson, 332-2229.
 Piano, Upright, Baldwin, delivered within reasonable distance, \$180, 333-3885.
 Corner Group, balsters and table, \$145, bathe and change table, \$10, mat clothes, sizes 11, 12, some 10's. Hanksraft facial sauna, ½ price, \$10, Cubley, 488-2248.
 Lawnmower, runs well, \$15, lawnmower engine and spare parts, \$2.50, 334-1895.
 Wiemer upright piano, tuned, good tone, very good finish, \$295, 554-2976 after 6 p.m.
 Portable water purifier, 1-3 gallon holding tank, ideal for camper or boat, Hammer, 337-2153.

VEHICLES

69 Cougar 351-V8, R/H, ac, vinyl roof, \$1600 or best offer, 332-4237 after 5 or weekends.
 66 Cadillac Sedan, ac, plus all Caddy accessories, nw tires, xlent in looks and performance, \$1,000, 554-3620.
 67 Dodge Monaco, V8, ps, pb, auto, air, radio, heater, 5 gd tires, \$800, Lyttle, 938-1829 aft 5 p.m.
 69 VW Squareback, xlent cndn, auto air, lw mileage, \$1,200, Dickinson, 534-3802.
 20" 3-spd bike, 2 yrs old, very gd cndn, \$30, Peck 488-0723.
 65 Mustang, 289, 3-spd, nw brake system, hi-jacker airshocks, muffler, Daytona tires, chrome wheels, \$800, Horn aft 6, 471-4071.
 69 Mercury Marquis Colony Park 4 seat station wgn, pwr seats, pwr windows, pwr str, pwr brakes (front disc), xlent buy at \$2225. 944-8717.
 Hardtop folding camper, complete kitchen, in/out stove heater, air, \$925, 488-2797.
 72 Pinto, air, auto, \$150 and assume payments of \$92, 554-5287 aft 6.
 70 450 Honda gd cndn, ext 3655, aft 5 pm, 479-8250.
 65 Corvair, \$40, Millican, 488-2384.

68 Oldsmobile Cutlass Convertible, xlent mechanical cndn, gd top and tires, all pwr options nw battery and water pump, air cndn, Boynton, 667-4533, 667-6490.
 63 Chevy Impala 4-dr Sedan, air, auto ps, radio, nw front tires, gd cndn, \$375, 941-0262.
 70 Cougar 2-dr, hdtp, vinyl roof, 351 V-8, auto, pwr, air, clean, 35,000 mi, nw tires and battery, 479-6141 aft 6 p.m.
 Utility trailer, enclosed 8 x 6 x 5 ft welded metal frame, aluminum walls, convertable to camper w/ work, \$200, 474-2906.
 66 Chrysler, 9 passenger wgn, pwr, twin ac, \$900, 474-2906.
 71 Yamaha 200 cc street bike w/ lug rack and helmet, sacrifice for \$350, Cooper 482-1009.
 67 Buick Skylark, spt coupe, ac, pwr str, AM radio 55,000 mi, \$600, Frank, 483-5121.
 Shelby Cobra, GT 500, 1969, xlent cndn, \$2300, Voss, x 2267 or 333-3571.
 69 Plymouth, Fury III, 4-dr Sedan Vinyl top, air, ps, 318 CID, \$1295, 946-7587.
 Mini-bike, 3 hp, ndsr job \$25, Huber, 334-3245.
 Girls' 24" bike, gd cndn, \$15, 946-7028.
 24" girls' bike, gd cndn, \$20, 554-3620.
 72 Chevelle Malibu, 350 engine, 2-dr HT, dcrk green, loaded, mint cndn, 15,000 mi, \$2850, 483-6381 or 488-5345 aft 6 p.m.
 63 Ford Country Sedan Wagon, 4-dr, auto, air, gd cndn, \$225, 643-7327.
 69 Olds 88 Custom 4-dr Sedan, pwr, air, vinyl roof, xlent cndn, gd tires, \$1525, Wilson, 472-2457 aft 6 p.m.
 Mini-bike or Go-Kart "Horstman" racing clutch for McCulloch engine, cost \$56, sell for \$30, 334-1895.
 Bikes, boys 20" Stingray, \$15, 2 girls 24" middleweights, \$20 each, folding vacation/travel bike, \$20, 334-1895.
 70 Pontiac Catalina, 2-dr ht, auto, pwr, air, beautiful cndn \$1925, Hammer, 337-2153.
 71 GMC 1/2-ton camper/van, 125" whlbase V8 w/ stove, reffrig, dbl bed, paneled closets storage. Sturtevant 333-3905 after 5.

BOATS

28 ft Chris-Craft 175 HP Chrysler Engine radio, etc, \$2500, firm, 339-1280.
 68 Chevy Fleetside ½ ton Pickup, V-8 std trans, radio and heater, camper shell, 4 nw tires, 7000 mi on overhaul, \$1300, Lyttle, 938-1829 aft 5 pm.
 New heavy duty (80 ga) 14 ft flat bottom boat, \$1 per pound, new 1000 lb, 12 in galv tilt trailer, \$145, 481-1521.
 Yellow Hobie Cat 14 and trailer, xlent cndn, many xtras, \$1050, Nute, 474-3400.
 8 one-half ft Grumman aluminum sailing dinghy w/ sails, centerboard etc, can be seen Seabrook Shipyard Shed I, \$150, Becker, 643-4151.
 Two 1954 Scott Atwater 16 HP outboards w/ gas tanks, both run, one good, other nds pump, both for \$65, Price, 479-6410.
 LIDO 14 sailboats, information on prices and cndn of used LIDO's for sale by owners, Hoover, 334-2392.
 PETS
 6-year-old Buckskin Quarter Horse, new, saddle and bridle, \$300, 337-1839.
 Free puppies, part black and tan Hound and part Golden Retriever, Huber, 334-3245 or ext 5800.

HOUSEHOLD ARTICLES

New washer, dryer, refrigerator, autumn gold, misc, baby articles, beds, sterilizer, others, Scott, 483-2315.
 Sofa-bed, biege mangahyde, gd cndn, \$45, old cnsl radio, \$25, used trike, 10", 12", \$3 each, 471-6798.
 Stereo cnsl, AM-FM radio, turn table, half octagon dark wood cabinet, aft 6 p.m. 772-2435.
 New Grandfather clock, Westminster chime, walnut cabinet, guaranteed, \$300, 488-2797.
 19" port, B/W TV w/ stand, \$25, port. Baby bed \$6. Bed frame dbl, \$5, 946-7028.
 25" RCA color TV operating but needs new picture tube, contemp style cabinet in xlent cndn, 6 yrs old, Hiemer, 482-1630.
 RCA refrigerator, gd cndn, \$75, children's toys, Hi-Fi components, amplifiers, tuner, Garrad changer, speaker, Burghduff, 488-3263.
 Queen size headboard, all wood, Italian Prov. style, \$50, 626-0487 aft 6 p.m.

PROPERTY & RENTALS

Half-acre building ots in Roman forest, section III, Waterfront townhouse lots on Lake Conroe section I, 471-6798.
 Toledo Bend Lakehouse, mile from Pendleton Bridge, furnished, extra nice, \$13,000, Maxwell, 482-1015.
 Nassau Bay, 3-2-2½, fireplace, living, dining, family rooms wooded lot, built-ins, detached garage with utility room, 474-4349.
 Newport, League City, 4-2-2, living room, den w/ fireplace, screened-in patio, equity plus \$155/month or refinance, 554-4894.
 Two bdrm furnished cabin, modern, air, 1 hr away on Lake Granada, water sports at its best, \$9500, 334-2206.
 Three bdrm, 2 bth, dining rm, fireplace, central a/h, fenced, Clear Lake City op-

posite elementary school, 474-3135 aft 5 p.m.
 3,057 sq. ft. incl 3 bdrms and study (or 4th bdrm), family and game rooms, 2 bths, 2 fireplaces, wet bar, formal living and dining rms, kitchen and eating area, utility room and detached double garage w/ 6 ft. cedar fenced bkyd, in Dickinson Pines, 337-2766.
 CLC Townhouse, below market, 3-2½-2, 23,500, \$181 per mo, \$5000 equity, 1425 Ramada Dr. 488-0730, no agents.
 House, sale or lease, 4 bdrm, 2 bths, ctrl a/h, built-ins, fireplace, carpeted, draped, fenced, 488-4451 aft 5 p.m.
 Lot in Galveston, 60' x 100' in Bermuda Beach, 100 yds fm Gulf, cash or terms, 946-1965.
 Newport 3-2-2 in top cndn, \$24,500 (6¾% FHA), must sell by 4/1, 554-5117.

WANTED

One complete type set of United States Liberty coins issued after 1900, Stebbins, 534-3385.
 Spanish or contemp 4-2½-2 Oakbrook West or equiv. Bullock, 774-6602.
 Coppertone refrigerator, coppertone mini-washer dryer, Hammer 337-2153.
 Roll Top Desk or Hall Tree, must be reasonable, 333-4891 aft 5 p.m.

Chess Club Elects Officers

The MSC Chess Club held its annual meeting and election of officers January 15. Re-elected were Alec Gallia as secretary and John Lyon as treasurer.

Elected as 1973 Directors were Kenneth Atkins, John Fulmer, Lee Gaskill, Bob Hall, Richard Hill, Lester Hoke, and Quincy Howard.

The current Apollo XVII Victory Tourney has attracted 16 area players in the U. S. Chess Federation "Rated Section" and 10 more players in the non-rated "Novice Section."

Twelve new members increased the club membership to approximately 70.

The club is sponsoring the MSC February Open Tornado tournament on Saturday, February 17, at MSC, Bldg 11.

For further information concerning the club or tournaments, contact either Alec Gallia at 944-8338 (home), 483-7236 (office) or John Lyon at 471-2696 (home), 483-2481 (office).

—MIT

(Continued From Page 1)

will be able to place satellites in orbit; return satellites from orbit; permit in-orbit repair and servicing of satellites, deliver propulsive stages and satellites to low Earth orbit, and conduct short-duration science and applications missions with self-contained experiments in low Earth orbit.

The Space Shuttle will be employed as an operational system by both NASA and the Department of Defense. Primary sites for the Space Shuttle will be the Kennedy Space Center in Florida and Vandenberg Air Force Base in California.

Awards Provide Incentive For Employees

Practically every issue of the Roundup has pictures or articles of MSC employees who have been given awards for outstanding accomplishments.

Recipients of these awards are determined by the MSC Awards Committee, whose function is to provide direction and guidance to certain aspects of the Incentive Awards Program. The Awards Committee is divided into the Special Awards Committee and the Suggestion Committee.

The Special Awards Committee establishes policy concerning honorary awards, reviews nominations for these awards and recommends awards under the program.

The suggestion committee reviews and evaluates suggestions which could result in awards of more than \$100, and resolves problems with suggestions having conflicting evaluations.

All MSC employees, including experts and consultants, are eligible to receive cash and honorary awards through the Incentive Awards Program. Contractors, their employees, and other U. S. citizens are eligible to receive awards for contributions made while they were employed by MSC.

In order to familiarize MSC employees with different aspects of the Incentive Awards Program, the following information was reprinted from U. S. Civil Service Commission FED Facts:

Opportunity And Challenge

The Incentive Awards Program provides an opportunity for you to be recognized and rewarded for full use of your skills and ideas. It is part of an overall personnel policy which is designed to make your career in Government more challenging and rewarding.

What's in It for You?

The incentive awards program holds many advantages for you and your fellow workers.

As an individual, you want satisfaction from the work you do and recognition for your accomplishments on the job. As a taxpayer, you want more economical and efficient operation of the public's business. As a conscientious Federal employee, you want to know that you are helping to give economical and efficient operation of the public's business. Finally, you want to know that your ideas for improvement are welcome and will be properly considered.

The awards program is a means to these ends. It is a systematic means for focusing attention on your ideas and performance and for providing personal recognition and reward for your extra contributions to better government.

When your ideas are put to work, you gain a real sense of achievement and satisfaction. You gain increased standing in the

eyes of your co-workers, your supervisors, and top management.

Your chances for advancement are improved because awards are given due weight when you are under consideration for promotion.

And you may put extra cash in your pocket if your achievements or constructive ideas merit an award.

What the Program Provides

—You can earn awards for use-

How Cash Awards Are Figured

Cash awards for adopted suggestions and special achievements can be based on estimated first-year measurable benefits, or they can be based on the value of intangible benefits.

For benefits that can be measured in dollars—such as savings in production time, man hours, supplies, equipment, and space—your award would be based on the dollar benefits according to a

agencies other than our own, your award may be increased proportionately.

Suggestions that promise solid improvements—that save time, materials, or paperwork, simplify procedures or processes, or improve service to the public will be welcome in your organization.

How Do You Go About Making Such Worthwhile Suggestions?

Successful suggestors agree that sound and workable ideas come

singular achievements can also bring you an award. Considered are contributions either within or outside your job responsibilities—such as exemplary performance of assigned tasks; performance which has involved overcoming unusual difficulties; exemplary or courageous handling of emergency situations in connection with official employment; or creative efforts that make important contributions to scientific research. Also, if your job is under the General Schedule (GS-1 through GS-17), continuing top performance in all important elements of your job could lead to consideration for a quality increase, which is an additional one-step increase in salary, rather than a cash award.

The Supervisors Role

If you are a supervisor, you have a special stake and special responsibilities in the incentive awards program.

Your job success depends on results you get through people. By demonstrating sincerely that you want ideas for improving operations, by encouraging constructive thinking on the part of employees, by helping to get good ideas adopted, and by recommending awards for good ideas and superior accomplishments—you gain the respect and confidence of the people whose work you supervise.

At the same time you reap the benefits that come from more efficient operations, reduced waste, increased production, improved working conditions, and better employee morale and employee-supervisor relations—all the things that contribute to a well-run organization and reflect credit upon you as an improvement-minded and cost-conscious supervisor.

Goal: Improved Operations

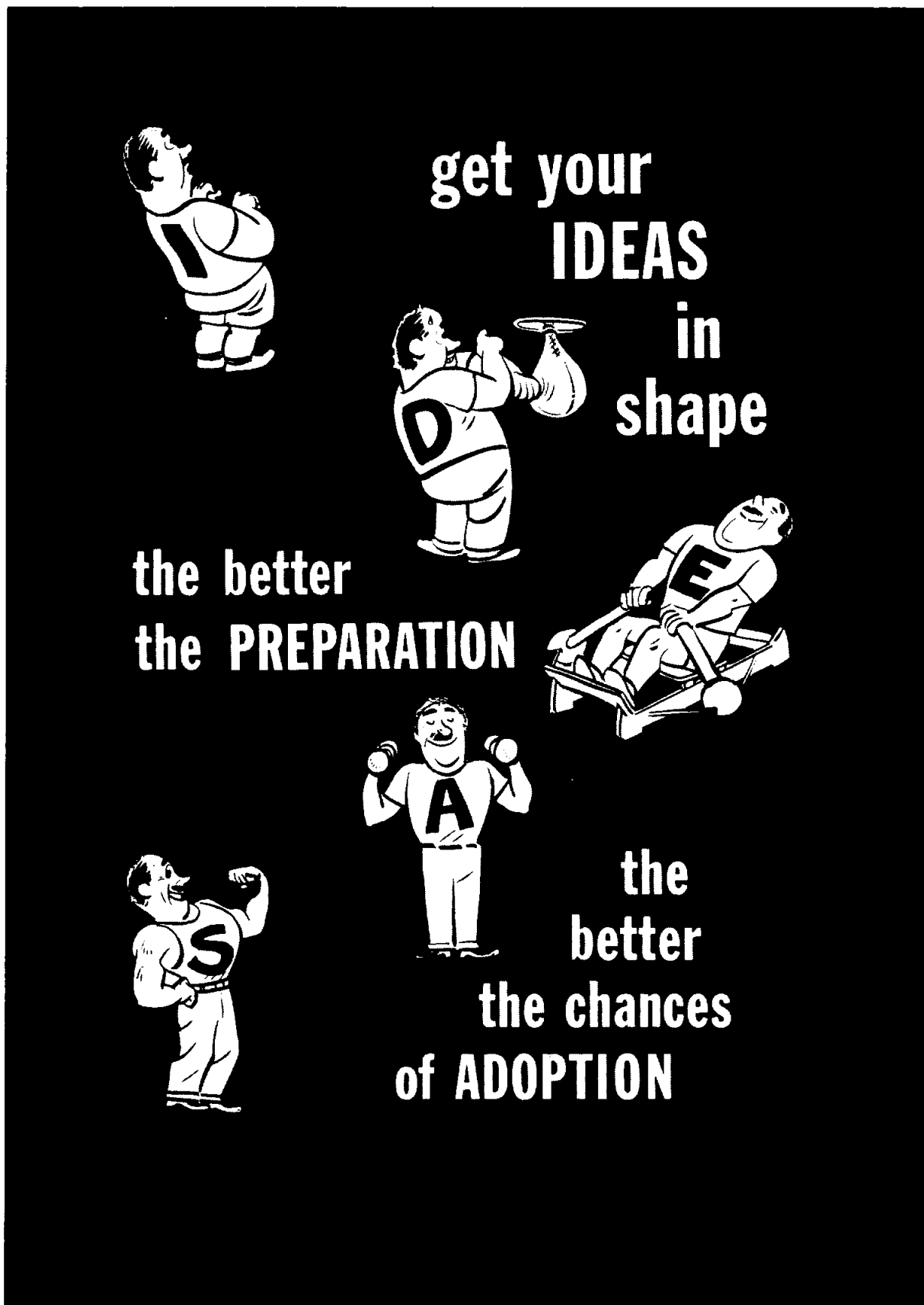
The key objective of the Government Employees' Incentive Awards Program is to improve the efficiency and effectiveness of Government operations by encouraging full use of employee skills and ideas.

Through this program, the Government underscores its desire to recognize and reward you for your special contribution to this objective.

As a Federal employee, you can reap two fold benefits from the incentives program—in better government as a taxpayer, and rewards and recognition as a participant.

You are in a unique position to make specific and direct contributions to the improvement of the Federal service.

The challenge and opportunity are yours.



ful suggestions or inventions. —You can earn awards for special achievements.

—Awards may be cash or honorary, or both.

—Cash awards may be for contributions of intangible value as well as for those which result in measurable benefits.

—Awards can be as high as \$25,000 for a single contribution.

—Awards may be earned as an individual or as a member of a group.

Government-wide scale. For example, an award of \$100 would be granted for measurable benefits totaling \$1,000, and an award of \$500 would be granted for measurable benefits totaling \$9,000.

For benefits that can't be expressed in terms of dollars—such as better service or improved quality—the amount of award is determined by the importance of the program affected by the contribution and its impact on that program.

If your contribution benefits

from using a systematic approach to find the BEST improvements.

Top Performance Pays

Even if you do not have a useful suggestion to submit, you can earn recognition under the program. Remember that the incentive awards program is not merely a suggestion system—a very important part of the program is the use of special achievement awards to recognize noteworthy accomplishments of Federal employees.

Excellence of performance or