NADC Reflector

Volume 32 Number 10 NAVAL AIR DEVELOPMENT CENTER, WARMINSTER PA. October 1987

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GEN-X marks the spot

New expendable decoy developed at NADC

By Mary Ann Brett

Our tactical aircraft need protection against an array of surface-to-air and air-to-air missile threats. As these threats grow in number and sophistication, our technology to counter them must grow at the same or faster rate.

NADC's newest contribution to electronic countermeasures is the Generic Expendable Decoy (GEN-X). Program director, Joseph Laska of the Mission Avionics Technology Department (MATD), led the effort to design, develop, package, fabricate, test and evaluate the GEN-X, an expendable active electronic device to counter a specific class of missile system.

Describing part of the problem, Laska said, "Suppose the jammer on any given aircraft were not doing its job. One of the more sophisticated threats, if not fooled by the jamming signal, could use the signal to its

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Photo by JO2 Todd Lutkin

Bill Hicklin, John Oakley, Sid McLeary, Joe Laska, Bill McLaughlin, and Harry Ricca discuss design advantages of various decoys. Laska holds a GEN-X prototype in hand.

Smith designated "Certified Plant Engineer" by AIPE

By Mary Ann Brett

NADC Public Works Officer (PWO), Lieutenant Commander Earl Smith, Jr. was recently designated a Certified Plant Engineer (CPE) by the Certification Board of the American Institute of Plant Engineers (AIPE).

Not without prior recognition, this new credential is still important to Smith. "It's based on my broad experience and background", he said, "and it shows that a standard of professionalism does exist in this business. It also indicates that maintaining Navy plants is at least comparable to private industry facility management and requires a qualified professional to do so both effectively and cost efficiently."

Smith has been a member of the Navy's Civil Engineering Corps for 19 years and is already a licensed professional engineer in California. He arrived at NADC in July 1985 and supervises nearly 200 people in his positions as PWO and Resident Officer in Charge of Construction. Smith has a Master of Science degree in Management from the Naval Post Graduate School in Monterey, CA and a Bachelor of Science degree in Mechanical Engineering from the University of California.

AIPE, with more than 8000 members across the U.S. and Canada, is America's only association dedicated exclusively to the plant engineering profession. AIPE certification was established in 1975 and quickly became a standard of excellence for the plant engineering profession. The initial process of certification requires either a combination of engineering education and experience or a passing grade on a comprehensive seven-hour written examination. To date, approximately 1,700 plant engineers in the U.S. and abroad have been certified.

LCDR Earl Smith, USN

Fireman wins national collegiate scholarship

By Mary Ann Brett

NADC Fire Fighter Richard Valesky recently won the U.S. National Collegiate Scholarship awarded by the U.S. Achievement Academy.

Valesky has been attending evening classes for four years and is only nine credits away from receiving a degree in Fire Science Administration (FSA) from Holy Family College in Philadelphia. The FSA coordinator there nominated Valesky for this scholarship which will cover his remaining tuition.

Although Valesky considers himself a part-time student, he has attended Holy Family, Montgomery County Community, and Philadelphia Community Colleges *concurrently!* He has maintained a 3.5 G.P.A. through the FSA curriculum which includes the theory of fire fighting, building construction, and fire extinguishing systems.

His goals include fire investigation and, perhaps, teaching. Valesky also intends going for a Master's degree.

Richard Valesky

ENERGY AWARENESS WEEK
19-23 OCTOBER 1987

Command Corner

CAPT Curtis J. Winters
Center Commander

Guy C. Dilworth
Technical Director

To all hands:

As the new Center Commander, I think it's important as well as appropriate to state now, at the begining of my tenure, my policies and my expectations.

As I view it, NADC is a unique facility. It's a blend of civilian and military; men and women; scientific and support, management and labor; all working on theoretical, developmental, or actual flying aircraft. The Center has a rich heritage of technical accomplishments plus a well-deserved reputation for having a talented workforce and being a well-run organization.

Here, in essence, is how I intend to operate:

Quality of Life

One of my goals is to make NADC an even better place to work. It's my belief that the better an organization treats its employees, the more productive, efficient, and responsive both they and the organization become.

Teamwork

The task of each individual is important. No one group, work center, or person can be totally successful without the assistance of others. Everyone must believe that his / her job is important.

Equal Opportunity

We will continue to take affirmative action to eliminate underrepresentation at all levels within our work force.

Innovation

Naturally, we must comply with, support, and enforce the rules and regulations of our superiors and the people who pay us. However, I believe there is still adequate flexibility within existing rules and regulations for us to be innovative as well. We must also be open-minded, imaginative, and quick to see the potential of new concepts and ideas. We must continually search for more productive ways of doing things.

Communications

Many problems are either caused or aggrevated by poor communications. Managers and supervisors must be well-informed of failures as well as successes. I want to be prepared, in a timely fashion, to be responsive to both good and bad news.

Details

Someone must clearly be responsible for the details in every endeavor. Very often the difference between failure and success is strict attention to details. I will be concerned with the details in your area of responsibility only when I believe that no one else is looking after them.

Important and exciting new aircraft systems are already being developed at the Center and more will certainly follow. For these programs to succeed, we must have the full commitment, talent and support of the entire NADC team. Our future as an organization hinges on our performance as a team.

C. J. Winters

CURTIS J. WINTERS
Center Commander

★ ★ ★ ★ ★

— 212th —

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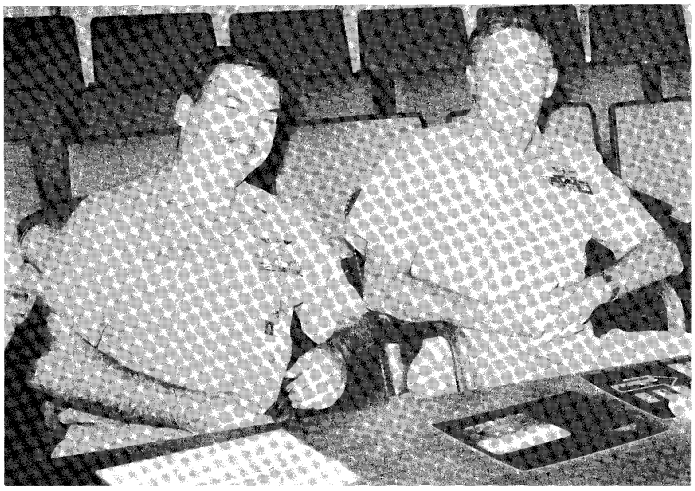

Photo by JO2 Todd Lufkin

TAKE CARE OF TACAIR: ***Rear Admiral G. H. Strohsahl (right) NAVAIR's Program Director for Tactical Aircraft visited NADC in September 1987. The Admiral and NADC's Commander Roger Hill, Deputy of the Tactical Air Systems Department enjoy a break between briefings.***

Commander Salutes

Ken Clark (Code 60): For expert and timely assistance to the Naval Air Systems Command to resolve P-3 aircraft wing corrosion problems.

John Connors (Code 60): For valuable assistance to the U.S. Small Business Administration Breakout Representative.

Edward White (Code 60): For chairing the Aircraft and Associated Ground Power Supplies Committee and the Aircraft Power Systems Committee for the Naval Air Systems Command.

William Mawhinney and **John Tyburski** (Code 60): For support to the Naval Air Systems Command on the H-46 Helicopter Emergency Flotation System.

Carl Reitz (Code 60): For outstanding support provided to the Unmanned Air Vehicle Program.

Joseph Colombo (Code 20): For outstanding support at the DoD Independent Research and Development On-Site Review at Rockwell International - North American Aircraft Operations.

Stan Olenick (Code 30) and **Glen Savage** (Code 40): For superior performance and successful completion of JTIDS Class II Multiservice Development Test Evaluation.

Anthony Mickus (Code 30): For contribitions to the successful achievement of many of the David W. Taylor Naval Ship Research and Development Center wargaming objectives.

W. Herbert Heffner (Code 20); **Kenneth Foulke, William Ailes, and Paul Prichard** (Code 50): For dedication to duty and outstanding support of high priority Naval Air Systems Command programs.

Marlene Grubb (Code 03): For assistance and advice to the Naval Civilian Personnel Data System Center.

Dave Bailey, Jim Weikert, Maria Hura, Paul Gasuk, Dick Desipio (Code 30); **Randy Huckaba** (Code 50); **Richard Adams, Ed Deska, Mike Strizak, Keith Sansalone, Eleanor Vadala, Joe Franz, Ed White, Toney Lee, Robert Santmann** (Code 60): For invaluable service and a job well done on behalf of the Navy Airship Program Source Selection Board.

CDR Timothy Cudia (Code 82): For developing the Aircraft Department's fine reputation in the VP Community.

HM3 Joseph Kailis and **HM3 James High** (Code 60): For assistance during the NAVRESREDCOM Trauma Management Weekend.

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Commander, NADC ..... **CAPT Curtis J. Winters**
Technical Director ..... **Guy C. Dilworth, Jr.**
Public Affairs Officer and Editor ..... **James S. Kingston**
Associate Editor ..... **Mary Ann Brett**
Assistant Editor ..... **JO2 Todd Lufkin**

New expendable decoy developed at NADC

(continued from page 1)

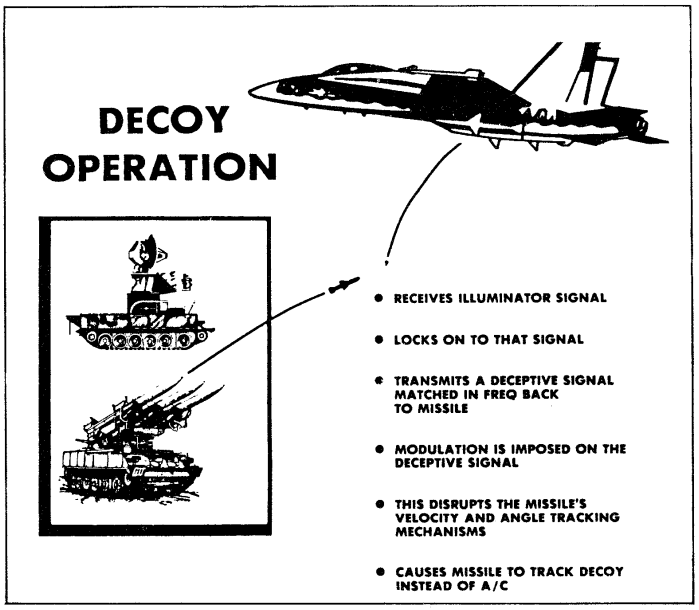
advantage by locking on to the jammer signal and hitting the aircraft. If you could kick the jammer off the aircraft, its signal would pull the missile with it and away from the plane. If the missile hits the decoy instead of the plane, the decoy has done its job." This is the theory that led to the development of the expendable (one shot) countermeasure.

"There's no such thing as a 'silver bullet' in electronic warfare," said Laska, ". . . no one answer to all the problems." In the development of the GEN-X, the problems included designing a cost effective, expendable decoy jammer with virtually the same capability as an on-board model. That meant compressing the electronics and housing from 1 to 2 cubic *feet* down to a 1-1/2 × 6 *inch* container.

The GEN-X owes its miniaturization to monolithic microwave integrated circuitry. This circuitry is powered by a self-contained battery which is activated when the cartridge is dispensed. The GEN-X has no external connections or controls and is stored in a thin-walled tubular cartridge and then loaded into a dispenser. After the pilot launches the GEN-X, it operates automatically. It receives a radio frequency (RF) signal from a recognized threat, makes necessary adjustments to the signal, and then retransmits a more powerful RF signal, appearing to the threat as a better target than the aircraft.

The GEN-X is the first major follow-on to the Prime Oscillator Expendable Transponder (POET) developed at NADC by MATD electronic engineers Bill Hicklin, Bill McLaughlin and Harry Ricca in 1976 and produced in 1978. POET was the first RF expendable decoy to be produced. In fact, it was POET's success that formed the foundation for the expendable decoy work now done at the Center. Through these efforts, NADC has been able to maintain its status as the lead lab responsible for the development, production support and inventory determination of miniature expendable jammers.

Laska said expendable countermeasures are not intended to replace on-board jammers, but, complement them. In some cases, either an on-board or an expendable version would sufffice. In other cases, both are needed . . . it all depends on the threat.



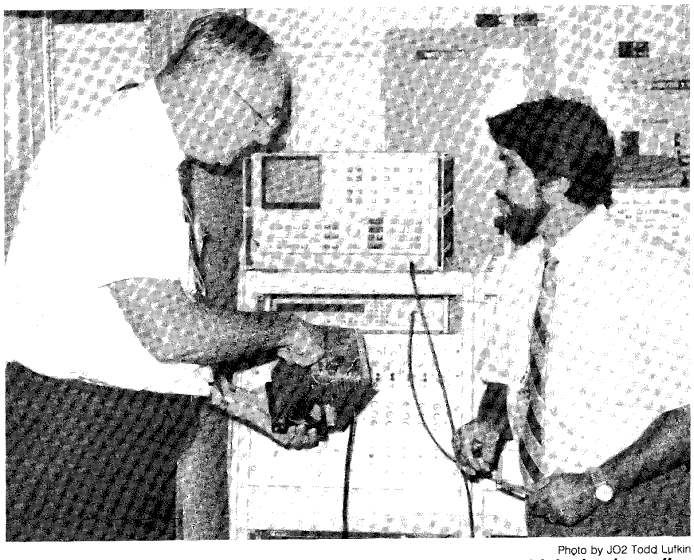


Photo by JO2 Todd Lufkin

Harry Ricca and Joe Laska inspect the spectrum analyzer which checks radio frequency output.

Be aware — be ENERGY SECURE

Energy Awareness Week begins October 19th. This year's theme is ENERGY SECURITY, emphasizing awareness of how energy affects our daily lives and national security and how vulnerable our energy resources are to foreign influences.

The United States uses more crude oil than it produces. Today, imports from foreign sources account for more than 40 percent of the petroleum required to fuel our industries, heat and cool our homes and office buildings, power our means of transportation, and support our defense systems. Any major or prolonged disruption in our imported oil supply would affect our way of life dramatically.

Energy security is attained by reducing our dependance on imported oil. It seems simple. But, why then doesn't the United States produce more crude oil? Why don't we use other forms of energy instead of oil? Why would foreign countries supply us with less oil than we need? Don't they need our money in return? When you try to answer these questions, you see how complicated the problem really is.

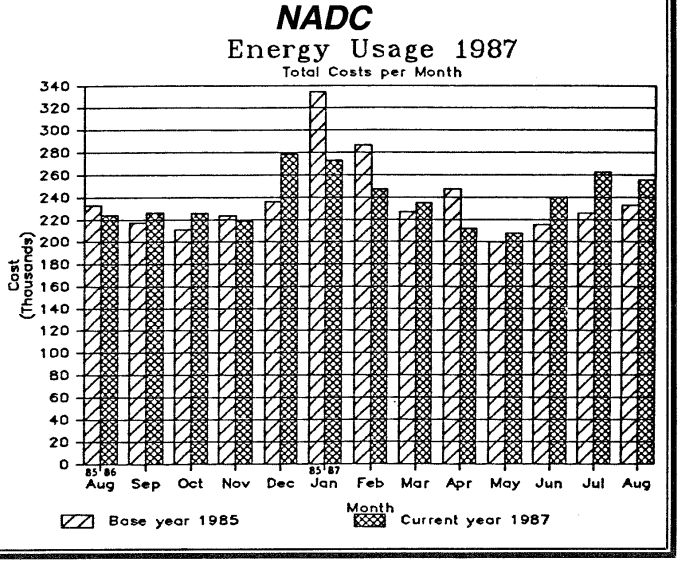
Only a limited quantity of oil remains in the earth, some probably yet undiscovered. Ironically, most of the remaining large deposits of oil are found in less developed countries, and not in the major industrialized countries that need sizable quantities to fuel their economies.

The question remains: Why not use other forms of energy? This is definitely the way to go; however, it takes major investments of time and capital. The United States has huge resources of coal, oil shale, and geothermal energy, aside from renewable sources like the sun, wind, and ocean. Technologies are being developed to harness the energy from these sources and make it usable. But it will be well into the 21st century before any of these alternatives can replace substantial amounts of oil and then only if the government and industry begin intensive development programs now. Today's relatively low cost and abundance of oil have made many forms of alternate energy sources uneconomical and impractical.

In the meantime, we are vulnerable and must conserve energy. Every barrel of oil, gallon of gasoline, or kilowatt-hour of electricity conserved means an equal amount of energy need not be imported and more energy will be available in the future. Not everyone can help discover new oil reserves or develop alternative energy sources, but every American can reduce energy demand by using energy wisely and conserving whenever possible.

Energy Facts

- The U.S. imports more oil today than in 1973 or 1979, 6 million barrels a day.
- Over 80% of the Navy's energy is from petroleum.
- Oil prices are slowly rising from a low of $10 a barrel in 1985 to $21 a barrel today.
- There is lack of new domestic and non-OPEC sources.
- By the mid 1990's OPEC will control virtually all of the world's excess oil capacity as existing non-OPEC fields dry up.



Another Humphrey in the White House

By JO2 Todd Lufkin

What Center employee has socialized with the last three Presidents and seen rooms of the White House the average Washington visitor never sees? Our own Greg Humphrey of the Materials Application Branch of the Aircraft and Crew Systems Technology Department. How did he manage this, you ask? Because he's lucky enough to have a sister who's with the management of Ford's Theater.

Recently Humphrey attended a gala sponsored by Ford's Theater to raise money for the arts. The entertainment included "Miami Vice's" Don Johnson, "The Golden Girls's" Bea Arthur, magician David Copperfield and singer Glenn Cambell.

The three-day affair included receptions that started at the Capitol, moved to Ford's Theater and ended in the Green Room of the White House.

"As a public building, the White House is very livable," stated Humphrey, who also visited the Oval Office and the Reagan's private quarters on the second floor. "It's a beautiful house."

Humphrey has met the Fords, the Carters, and now the Reagans. "The President and Mrs. Reagan are sociable people—very nice. They made everyone feel welcome and at home."

"I was intrigued looking out the White House windows and seeing the people who were looking in. They would wave at us because they thought we were important. So we waved back."

Humphrey is looking forward to meeting the next family who moves into the White House.

Official White House Photograph

NADC's Greg Humphrey gets up-close and personal with the First Lady and President Reagan.

Photo by Jim Kingston

TELLING IT LIKE IT IS, *Captain Curtis J. Winters gives an NADC orientation to members of Warminster's Rotary during a recent luncheon meeting.*

Minority enterprise week held

Congress has designated the week of October 5th 1987 as National Minority Enterprise Development Week. In honor of this occasion, the Small Business Office will publish a directory of minority- and women-owned businesses. This directory will assist in implementing the Center's Small/Disadvantaged Business Programs, especially the new Small/Disadvantaged Business Set-Aside Program.

Supporting a minority business is no small matter at NADC. The ever-increasing support for minority business has gone big — while having its roots firmly planted in the Small Business Program.

Congress mandated that 5% of all DoD contract dollars be awarded to minority businesses for fiscal years 1987 through 1988. To emphasize its support for this goal, NAVSUP gave NADC a 7.7% goal for FY87. As of the end of August we had awarded more than 9% of our direct purchasing dollars to minority business and most of the contracts were won competitively. The contracts awarded span a wide range of disciplines such as library services, engineering support, and design of Global Positioning Satellite equipment.

For additional information contact the Small and Disadvantaged Business Office on extension 2456.

If the SOC fits

By Robert Janes

SECNAVINST 5370.2H, entitled, "Standards of Conduct and Government Ethics," is the primary Navy instruction in the area of the Standards of Conduct (SOC). This instruction is available in General Files (extension 2763) and should be consulted for guidance on any SOC questions. The Office of Counsel (Code 095) is likewise available to provide advice and guidance on these matters, and I urge any of you with SOC questions to call our office on extension 3000.

One of the enclosures to the SOC instruction, entitled the "Bedrock Standards of Conduct," provides a concise summary of the entire instruction. Those bedrock standards of conduct are:

1. Avoid any action, whether or not specifically prohibited, which might result in or reasonably be expected to create the appearance of:
   - — Using public office for private gain,
   - — Giving preferential treatment to any person or entity,
   - — Impeding Government efficiency or economy,
   - — Losing complete independence or impartiality,
   - — Making a Government decision outside official channels,
   - — Adversely affecting the confidence of the public in the integrity of the Government.
2. Do not engage in any activity, or acquire or retain any financial interest which results in a conflict between your private interest and the public interest of the United States related to your duties.
3. Do not engage in any activity that might result in or reasonably be expected to create the appearance of a conflict of interest.
4. Do not accept gratuities from defense contractors.
5. Do not use any official position to influence any person to provide any private benefit.
6. Do not use your inside information to further a private gain.
7. Do not use your rank, title, or position for commercial purposes.
8. Avoid outside employment or activity that is incompatible with your duties or that may bring discredit to the Navy.
9. Never take or use Government property or services for other than officially approved purposes.
10. With limited exceptions described in the instruction, do not give gifts to your superiors or accept them from your subordinates.
11. Conduct no official business with persons whose participation in the transaction would be in violation of law.
12. Seek ways to promote efficiency and economy in Government operation and public confidence in its integrity.

Security Reminder

Protect foreign "Restricted" material, for which there is no U.S. equivalent, the same as U.S. Confidential.

Protect typewriter ribbons used in typing classified material the same as the highest level of classification for which they have been used. Refer to Paragraph 1102.d, of NAVAIR-DEVCENINST 5510.13C.

Sports

The Divots did it in the dark

By Ken Clark

The Divots did it! They won the 1987 Nick Murphy Trophy, that is. For those of you not up on your NADC edition of Trivial Pursuit, the Nick Murphy Trophy is awarded annually to the NADC Golf League Championship Team—this year the 1987 Divots. While former team captain Bob Lutz pulled a tour of duty as this year's league president, Ken Clark filled in this year as the team's match master. With stalwarts Bob Melby, Linda Clark, Ron Whitsel, Joe Cody, Dick Crosbie, John Kolb, Dutch Krauss, Chris Stehnach, Bill Hicklin and Wayne Everett, the Divots managed a close second place finish in their division, entitling them the post-season ball beatings. Convincing wins over the Strokers, the 19th Hole, the White Division Champion Mulligans, and the Red Division Champion Hobbits, gave the Divots their second championship in five years.

The final round of the '87 playoffs was a nine-against-nine slugfest, featuring air support from Bob Lutz as he circled Northampton Country Club in the NADC Flying Club plane on his way back from a Boston trip. Also missing from the finals were Bill Hicklin (on travel in Paris, France) and Linda Clark (the team's low handicapper). When play ended in deep twilight, the Divots had survived everything including Hobbit dust, Steve Cloak's one iron and Abe Berman's thrashing of Wayne Everett on the club tennis courts (which was where Waynes driver maneuvered three consecutive tee shots). The playoffs are not a new experience for the Divots, who had won the title twice previously. The Double Eagles have won the most league championships with five, followed by the Divots and Greenies tied at three each. After the Divots '83 win, they gained the second round of the playoffs in '84, the first round in '85 and the third round in '86 before winning in '87. Next year, they are hoping for more of the same—taking long walks and hitting things with a stick.

Photo by Dick Crosbie

THE 1987 DIVOTS CHAMPIONSHIP GOLF TEAM. ***Ron Whitsel, Chris Stehnach, Ken Clark (Cpt.), Bob Melby, Joe Cody, Dutch Krauss, John Kolb, Dick Crosbie. Not shown is Wayne Evertt, halfway down the first fairway with his best tee shot of the day.***

Renegades — surprisingly good football in 1987

By Mark Lilly

All right, so I blew a few of the predictions that I made in the last article. I suppose it's a good thing that I'm an engineer and not an oddsmaker. The most notable discrepancy from my predictions was my guess that Blue would finish in third place. Well, there's a pretty good chance that won't happen, since they don't have a win in four contests. Two other deviations from my soothsaying endeavors, albeit to a lesser extent, are the sudden success enjoyed by both the Renegades and the Lasers (the former I can live with). Below is a list of the standings through Week 4 of the 1987 season.

Team	W	L	T	Points For	Points Against
Renegades	4	0	0	92	12
Granfalloon*	3	1	0	63	15
Barking Spiders	3	1	0	71	53
Lasers	3	1	0	56	56
Dragons	1	3	0	45	96
Pit Bulls	1	3	0	37	72
Gang Green	1	3	0	35	65
Blue*	0	4	0	26	56

*Forfeit Game - No Points Assessed

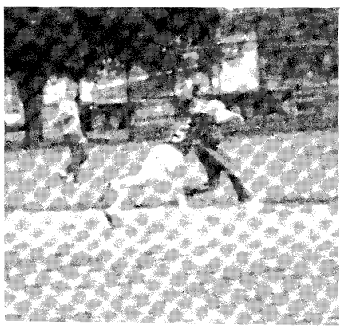


Photo by Phil Richardson

The Renegades' Scott Lassen seems to dive for no apparent reason in front of the Pit Bull's Darren Fields.

Photo by Phil Richardson

Pit Bull Steve Spadafora tries to catch the ball with his eyes closed as Renegades' Steve Hynes and Scott Lassen defend.

The Renegades, probably the most suprising team of the 1987 season, were leading the pack through week 4. They were undefeated through the first four games and that streak included a gutsy win over an always tough Granfalloon squad. Coming into that game, the Renegades had outscored their opponents 79-0. The Falloon had put up some equally impressive numbers, plus they were riding a 17 game winning streak that dated back to the fourth game of the 1985 season when they lost a close game to Gang Green. The first half was a defensive struggle with the score tied at zero going into halftime. The Falloon were lead defensively in the half by Tom Weiss, who blocked four Steve Hynes' passes, and Mike Bubb who intercepted two more. The second half started with a bang as the Renegades' money player, Jerry Costanzo, returned the opening kick-off for a touchdown on a lateral from Jeff Price. The extra point was converted on a Hynes to Scott Lassen pass reception making the score 7-0. The Falloon, always strong in the second half, came back to take a 12-7 lead on two touchdown passes from Weiss to Steve Fleischut. The Renegades came back to win the game 13-12, on a long pass from Hynes to rookie sensation Mike Elser. The game was well played by both teams, especally in the second half, and portends to another match-up in post-season play.

The Barking Spiders were in third place through week 4 and seemed to be heading towards another playoff-bound year. The Spiders opened up the season looking rusty in a 13-8 win against Gang Green and they didn't look much better in a 25-0 loss to the Renegades. However, week 3 saw the Spiders bounce back with a vengeance as they beat the Pit Bulls 32-7. During the contest Bill Schork was a one man wrecking crew as he tallied four touchdowns against a completely astonished Pit Bulls team. The fourth week pitted the Spiders against a winless Blue team. The Spiders won easily 26-13 to take a 3-1 record into the second half of the season. One final

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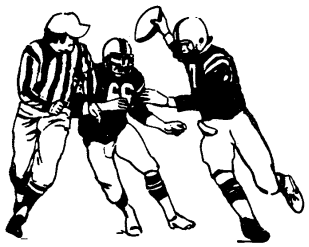

Mixed Bowling News

By Tom Reiter

The new season ended its first month with interdivisional matches. The A Division won the first encounter by winning 28 total game points to the B Division's 20 points. Going into October, the Red Winos are atop the A Division and the Goofers have again taken over the lead on the B side.

The standings and highest individual scores bowled by each team are:

A DIVISION

Red Winos	Mike Dent - 230 Elaine Granieri - 190
Neiners	John Vincent - 230 Nelda McMillan - 179
Warveyhallbangers	Mike Lizbinski - 250 Granny Tierney - 174
Alleycats	Jack Eyth - 219 Kathy Barnes - 190
Bullshooters	Larry Coar - 181 Eileen Cunnane - 160
Spare Us	Bob Connison - 178 Donna Morgan - 157
Eleventh Frame	Allen Goldstein - 199 Helen Halko - 173
Les Champignon	Joe Lindinger - 205 Claire Simon - 162
Blips	Jim Tidwell - 208 Karen Messina - 151
Dynamic Duos	Nick Doto - 189 Janice Hinchliffe - 148
Big Spenders	Bob Leidy - 185 Sue Casagrand - 153
Who Cares	John Bowes - 221 Barb Fleischut - 144

B DIVISION

Goofers	Wes Gleason - 221 Larraine Reidinger - 166
Lucky Strikes	Art Duhaime - 184 Cathy Burian - 168
Strange Brew	Scott Kee - 214 Debbie Wood - 153
Lane Brains	Hank Lystad - 205 MariJane Maloney - 168
Magic Markers	Ed Beach - 193 Andrea Sicher - 157
White Winos	Tom Vollmar - 193 Carolyn Kolb - 164
Screwballs	Jack Horning - 201 Pat Tease - 146
Pinheads	Bob Parsons - 204 Lisa Johnson - 146
From The Gutter	Rick Yeager - 222 Larraine Williams - 168
Nine Pins	Steve Palumbo - 180 Linda Stickney - 180
Destroyers	Dave Whitenack - 172 Lorrie Dunn - 177
Falcons	Steve Jerdan - 193 Carole Calkins - 158

Guzzler open won in sudden death playoff

By Charlie Destra

The annual Guzzler Open, a team competition this time around, was won by the foursome of Pete Carroll, Bob Parsons, Rick Sames, and Mike Janinek in a sudden-death playoff in which five teams participated. The winners were the only team to reach par on the extra hole to capture the championship.

Fifty-three golfers, and would-be golfers, teed off for the big prize—the 1987 Guzzler Cup—a brand new concept dreamed up by tournament director John Markow, and likely to become a regular feature in future open tournaments. The field was the largest ever for a Guzzler event.

The outing took place on September 3rd at the tiny but deceptive Horsham Valley Golf Course, with its narrow fairways, tight greens, abundance of trees, and dangerous water holes.

Scores were based on the International Scoring System (eagles = 5, birdies = 3, pars = 1, and anything below bogey meant subtracting points). The best score of each foursome per hole was used, but there was a twist in the system—every player's score on each team had to be used at least four times. (The complicated set up resulted in many teams spending about as much time figuring their sacore at the end of the event as they did playing golf.)

Teams were asked to represent a particular country in the spirit of the international format, and many responded with some interesting golf garb. Among the entrants was "Austria" (clearly the best outfitted), "Fireland" (members work fireman's hats), "The Nightrider Nation" (softballers in their uniforms sporting flags), and "Kuwait," who came with a slogan (as told by Al Koch): "We'll play under the American flag and promise to get tanked."

When the tournament ended and the scores were figured, Markow decided that any team with 10 or more points would battle it out in a playoff. So, even though the Parsons-Carroll-Sames-Janinek teams had posted the highest score (+19), it wasn't good enough, and they had to win it the hard way.

Participating playoff foursomes were asked to pick two golfers to represent their team, and do alternate shots on the relatively easy par three, 165-yard 10th hole. But when the action began, the "so-called" best golfers of the event hit some of the worst shots, with a howling gallery of golfers laughing and looking on. Pop-ups, grounders, slices and hooks were the rule — except for the steady Parsons and Carroll of the winning team. The others that represented their foursomes on the extra hole were Mike Bubb and Jim Eck, Dean Mondelblatt and Steve Metcalf, Bob Pearce and Doug Leidy, and Dick Chern and John Markow. Markow and Chern presented the best challenge — a mild one at that — to the winners.

The Open, in its sixth year, is the second step on the Guzzler tour, Preceded by the Spring Invitational, and followed by the Fall Classic, upcoming October 29th at Fox Hollow Golf Club. Contact John Markow, extension 1026, if interested in participating. Players, scores, and rankings are listed below:

Team	Score
P. Carroll, R. Parsons, R. Sames, M. Janinek	+19
D. Mondelblatt, S. Metcalf, G. Kovak, R. Osborne	+13
D. Leidy, R. Pearce, R. Tausek, W. Jones	+12
M. Bubb, J. Eck L. Morris R. Geyer	+10
J. Markow, R. Chern, R. Pomrink, E. Fulmer	+10
W. Latosh, J. Scott, W. Mulley, J. Spiecker,	+9
S. Fleischut G. Torok, G. Willis, P. Finnegan	+9
B. Price, A. Koch, K. Miller, R. Monaco	+8
K. Mergner, H. Frost, J. Frost, M. Weik	+5
J. Eyth, C. Destra, S. Jerdan, P. Arbuckle	+4
F. Ewing, B. Hamilton, M. Holden	+2
J. Bowes, J. Ward, K. Stingel, L. Vollrath	0
N. Torres, J. Else, W. Gleason	−1
B. Cerino, A. Hribar, W. Walsh	−7

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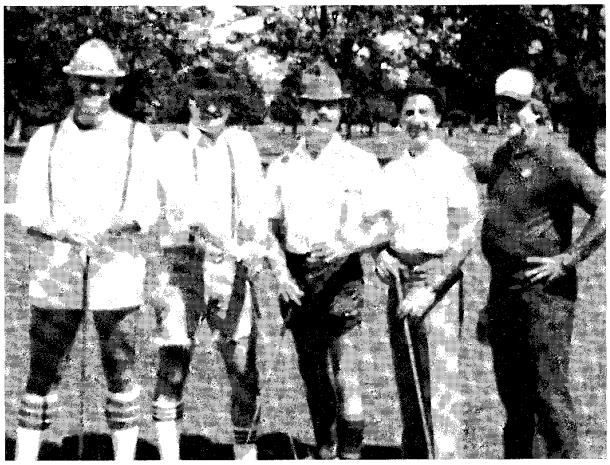


Photo by Matt Markow

TEAM AUSTRIA: ***Great outfits, not so great golf — J. Ward, J. Eyth, J. Bowes, K. Stingel. Eyth "defected" to play for one of the two Nightrider Nation teams.***

A POETIC TRIBUTE TO THE SOFTBALL LEAGUE

By Charlie Destra

The league was swelled to 20 teams
that had high hopes and playoff dreams.
But the season was troubled with its share of woes:
rainouts, lack of fields and ump no-shows.
Though we got through it all with some despair,
no other league really can compare.
Who needs Maris and Mantle or Lynn and Rice,
when you have Dungan and Sames, Rudock and Price?
Who needs the Babe, the Bull, the Clipper, or Lou the Lip,
when there's the Fly, Rock, Iceman and Skip?
And "Yankee Pride" and "Dodger Blue" can throw in the towel
when pitted against "Guzzler Magic" and "Nightrider Know-how."
So we have it all, and deserve some hands,
except for the fact that we don't have the fans!

DAYLIGHT-SAVING TIME ENDS
ALL BACK
1 HOUR · OCT. 25th

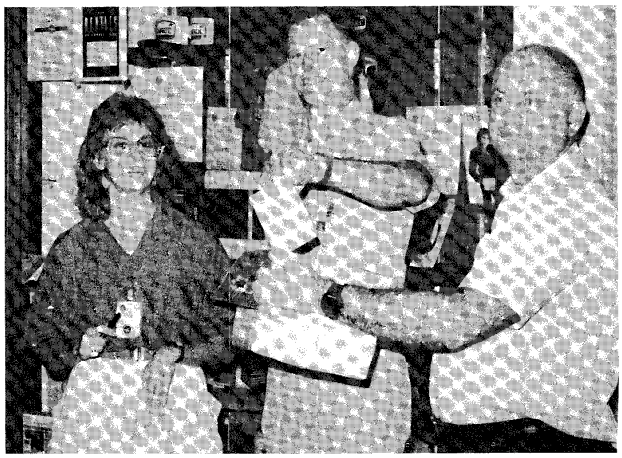


Photo by Mary Ann Brett

Photo by JO1 Todd Lufkin

AND THE WINNER IS: ***(photo left) Captain C. J. Winters draws a winner from among the employees who donated blood during the last drive. Janet Wild, Treasurer, and Len Roach, President of the Welfare and Recreation Association (W&R), help distribute three prizes provided by W&R. (Photo right) Joseph Clay was quick to claim his 1st place prize, a microwave oven.***

Physical readiness . . . a top Navy priority

Photo by JO2 Todd Lufkin

NADC's nearly 250 military personnel lunge into a 1-1/2 mile timed run, part of the mandatory semi-annual physical fitness test.

Low body fat measurements are an important part of the overall program.

Photo by JO2 Todd Lufkin

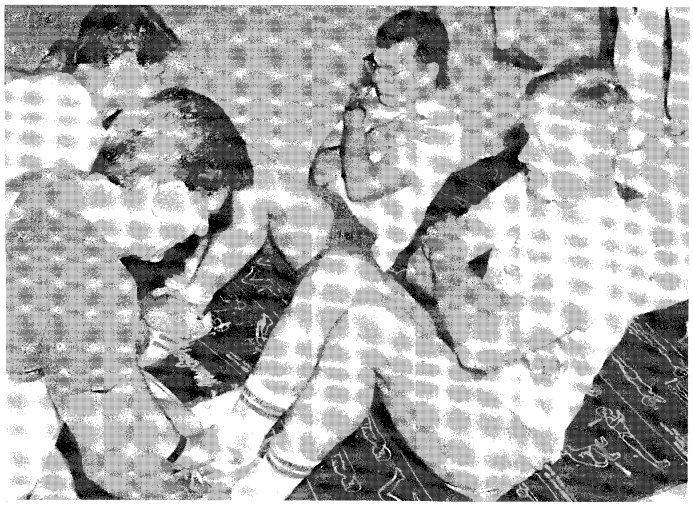


Photo by JO2 Todd Lufkin

"Couldn't you count in 2's?" is what Captain C. J. Winters might be thinking while doing 82 sit ups (considered outstanding for his age group).

Promotions

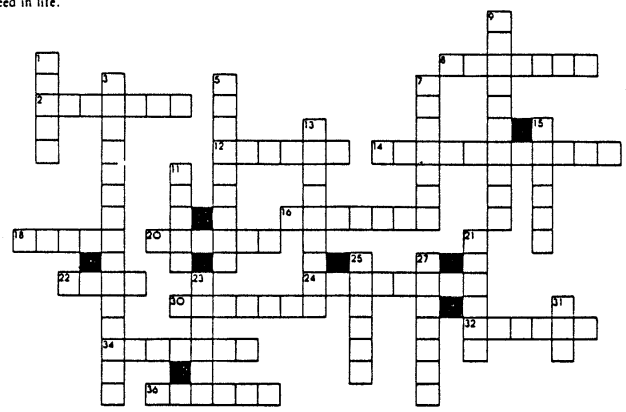
Patsy Schaeffer, Dickson Alley, Nancy Alley, Patricia Aspinall, Joseph Bebey, John Boodey, Mary Buck, Robert Casagrand, Vincent Catone, Alice Colyar, Elizabeth Decker, Theresa Dedominicis, Robert Dillingham, Susanna Dougherty, Francis Flannery, Steven Gabai, Armando Gaetano, Ronald Garber, Attilio Gatto, Kris Gigliotti, George Gluz, Nancy Harned, Marilyn Hatzenbeller, Ellen Hayes, William Hudson, Anna Jordal, Dale Kostenbauder, Steven Kravats, Phyllis Kuhn, Jane Libbos, Roger Liu, James Louie, Jeffrey Lytle, Robert Lubanski, Joseph McFadden, Norwood Metcalf, Claude Mobley, Donna Morgan, Sydney Oliver, David Popeck, Eric Preissner, John Reeves, Carolyn Richards, Michael Rinelli, Joy Risko, Regina Rodak, Janet Russell, Martin Ruzansky, Richard Savory, James Sheehy, Davene Sheppard, Ronald Simononis, Y Trung Tran, Michael Troyanosky, Janet Wild, Christina Zaccaria.

Understanding; not pity helps the handicapped

The first barrier to freedom for the handicapped is in the minds of ordinary individuals. One of the most effective ways of tearing down this barrier is through understanding. Few people know very much about the handicapped; even fewer people have had a significant contact with that segment of the population which is considered handicapped. To many people, handicapped individuals are to be pitied, to be helped,—this attitude is not a productive one for either the handicapped individual, or the non-handicapped person. Handicapped men and women are leading full and independent lives throughout our great country. They go to schools, jobs, buy homes and cars, participate in community activities, and raise children. Sound familiar? It should. There's no better time than now to recognize that those individuals with handicaps are people—just like anybody else.

Positive Images of Disability

Great contributions have been made by men and women who have been affected by disabilities. See if you can identify them in this crossword puzzle, keeping in mind that people challenged with disabilities don't necessarily have to be famous to succeed in life.



DOWN

1. Born a dwarf, he became one of the most successful "little people" to gain popularity in the media industry. He is Billy_____.
3. His growth curbed, Henri de_____'s paintings in the Moulin Rouge made him a notable in the 18th century.
5. Challenge him with infantile paralysis, and vote him in as the only U.S. President to be elected to four terms, and you have Franklin D._____.
7. A victim of a war injury that left him without use of his hands, his administrative talent and wit elevated him to Chief of Staff to California's Governor. He is B. T._____.
9. Having an ileostomy does not prevent a professional football career with the San Diego Chargers for Rolf_____.
11. Remove the sight from one eye and he still becomes one of America's most famous all-round entertainers - you have Sammy_____ Jr.
13. Deafen a genius composer who continued to compose some of the world's most beautiful music, and you have a Ludwig von_____.
15. A hearing loss didn't slow this actress and comedienne from a successful show business career. She is Nanette_____.
21. Blind at birth, he went on to become one of today's most popular song artists. He is Stevie_____.
23. Give her cerebral palsy, a great sense of humor, timing, and delivery, and feature her on the television series "Facts of Life", and she's Geri_____.
25. Take away her hearing but give her the successful adventure packed life of a stunt artist and race-car driver, and you have Kitty_____.
27. Sustaining a back injury on PT 109, John F._____ succeeded in attaining the Presidency of the United States.
31. After losing a leg to cancer, Terry_____ attempted to jog across Canada. He successfully raised $21 million for cancer research.

ACROSS

2. Challenged by the crippling effects of polio, Wilma_____ developed and conditioned her body and became an Olympic Gold Medal winner and intentionally known track athlete.
8. Following a devastating accident, Jill_____ Olympic skier, restructured her life and attracted film-goers in "The Other Side of the Mountain."
12. Amputate the arm and leg of an aspiring young actor after a motorcycle accident, and you have a James_____.
14. One of the little people, Herve_____'s career was highlighted by his famous "de plane, de plane" on the television series Fantasy Island.
16. Take away his vision, but let him provide the world with the best of soul and you have Ray_____.
18. Even though diabetes threatened to limit her, she succeeded as one of today's most popular actresses. She is Mary Tyler_____.
20. Give her multiple disabilities, let her continue to promote laughter, and you have Totie_____.
22. A victim of a debilitating stroke, she fought her way back to a successful career as a serious actress. She is Patricia_____.
24. Call him a slow learner and write him off as uneducable, but let him become a physicist to develop the theory of relativity, and you have an Albert_____.
30. Paralyze him with polio, give him the ability to be a famous concert violinist, invite him to inaccessible concert halls, and you have Itzhak_____.
32. The light bulb was developed by a deaf man, Thomas_____.
34. His hands amputated from a service-related injury, he became an academy award winning actor and Chairman of the President's Committee on Employment of the Handicapped. He is Harold_____.
36. Blind and deaf at birth, she inspired, lectured and taught so that others likewise disabled could communicate and contribute to society. She was Helen_____.

Answers

DOWN	ACROSS
1. Billy Barty	2. Wilma RUDOLPH
3. Henri de TOULOUSE-LAUTREC	8. Jill KINMONT
5. Franklin D. ROOSEVELT	12. James STACEY
7. B. T. COLLINS	14. Herve VILLECHAIZE
9. Rolf BENIRSCHKE	16. Ray CHARLES
11. Sammy DAVIS, Jr.	18. Mary Tyler MOORE
13. Ludwig von BEETHOVEN	20. Totie FIELDS
15. Nanette FABRAY	22. Patricia NEAL
21. Stevie WONDER	24. Albert EINSTEIN
23. Geri JEWELL	30. Itzhak PERLMAN
25. Kitty O'NEILL	32. Thomas EDISON
27. John F. KENNEDY	34. Harold RUSSELL
31. Terry FOX	36. Helen KELLER

By: Hope Vaut and Aiko Kurosaka

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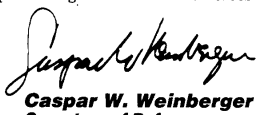
1987 Veterans Day Message from the Secretary of Defense

It is entirely fitting that we pause each November 11 to honor our veterans, for they have honored us. With devotion and, too often, with blood, American veterans have secured those rights and liberties defined in our Constitution, whose bicentennial we celebrate this year.

That great document promised freedoms which were truly revolutionary, but we should always remember that promises, to be kept, must be secured. From the Revolutionary War that produced the Constitution, to the terrible Civil War that nearly consumed it, to those who proudly wear the uniform today, American servicemen and women have answered the call. Every day that Americans breathe free and enjoy peace is a day of tribute to our nation's veterans and to the soldiers, sailors, airmen, Marines and Coast Guardsmen who are tomorrow's veterans.

Veterans often fight in war, but their greatest legacy is peace with freedom. We look to a day when mankind can finally declare eternal peace. But, until that declaration carries the guarantee of freedom, we must sustain the strength which our veterans embody.

I join the men and women of the Department of Defense, and Americans everywhere, in declaring profound gratitude to these heroes of liberty.



Caspar W. Weinberger
Secretary of Defense

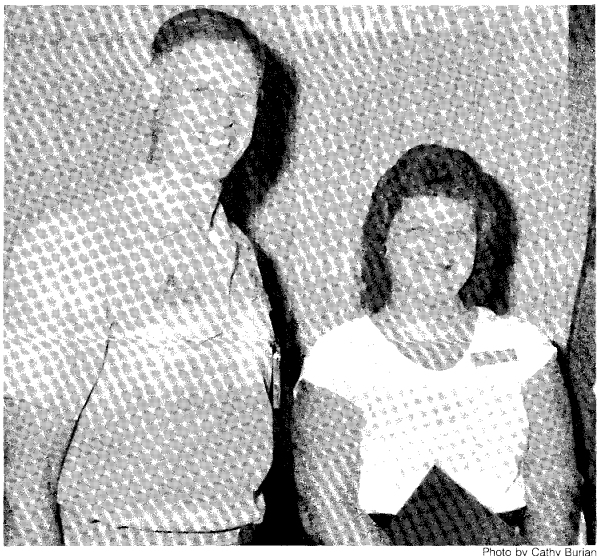


Photo by Cathy Burian

OMBUDSMAN APPRECIATION — ***In Honor of Ombudsman Appreciation Week, Captain Winters honored NADC's Ombudsman Vickie Sparkman during a ceremony in his office.***

For women only

Women who drive alone . . .

can increase their personal safety by following a few simple rules to protect themselves.

- Keep your car in good mechanical condition so you won't have a breakdown in a lonely or dark place. You will also be able to move away quickly from a bad situation if your car's engine is in good working order.
- Hold your car keys in your hand as you approach your parked car. Don't wait until you reach the car to grope around in your purse. Experts say you're most vulnerable to harm when you enter or leave your car.
- Check the back seat before entering the car, even if you've left it with the doors locked.
- Lock all car doors and roll up the windows while you drive.
- Keep the phone number of your AAA emergency road service in the car as well as in your purse.
- Never pick up hitchhikers.
- Sound the horn in potentially dangerous situations.
- Consider having your car equipped with an alarm that goes off a few seconds after you enter the car unless you switch it off. This can help deter abductions in your own car.
- If your car becomes disabled, lock yourself in and turn on the fourway flashers until the police come.
- Be wary of using a citizens' band radio to call for help. Calls are sometimes answered by people with the wrong motives. If you **do** use your CB radio, don't leave your car until a **uniformed** police officer comes.
- If you drive alone in the winter, keep such items as a traction mat, a shovel and a bag of sand or kitty litter in your trunk. Other useful emergency equipment includes flares, blankets, water, flashlight, canned food and a reflectorized sign that asks for help.
- If you have a flat tire in a dark or dangerous location, drive slowly to the nearest service station or public place. Even if you ruin a tire, you have not risked your life.
- Always park in a central, well-lighted place, preferably where there are attendants on duty or people passing by. Try to park so that you will approach the driver's side of the car when you return. You won't be surprised by someone who has crouched by the door.
- Avoid shortcuts that take you through unfamiliar or unsafe areas.
- If you notice someone acting suspiciously near your car, walk in a different direction toward a public place and seek help.
- Beware of men in civilian clothes driving unmarked cars who flash what appears to be a police badge. Don't roll down your window or get out of the car. Instead, request that a marked police car be called.
- If your car is rammed from behind and the hit seemed to be deliberate, always stay in the car with the doors locked. Wait for the police to arrive.
- Most police experts **do not** recommend that you carry weapons in your car. They suggest that some everyday items can be used for protection. These include flashlights, rat-tailed combs, pens, keys and screwdrivers.
- If someone forces you to drive your own car in an abduction, try to attract the attention of the police by turning off the lights, speeding, driving as if you were intoxicated, or run into something.
- Never follow a stranger who offers to help you find your way on an unfamiliar road or street. Wait in your vehicle and ask for directions.

HALLOWEEN

Renegades — a surprise in '87

(continued from page 5)

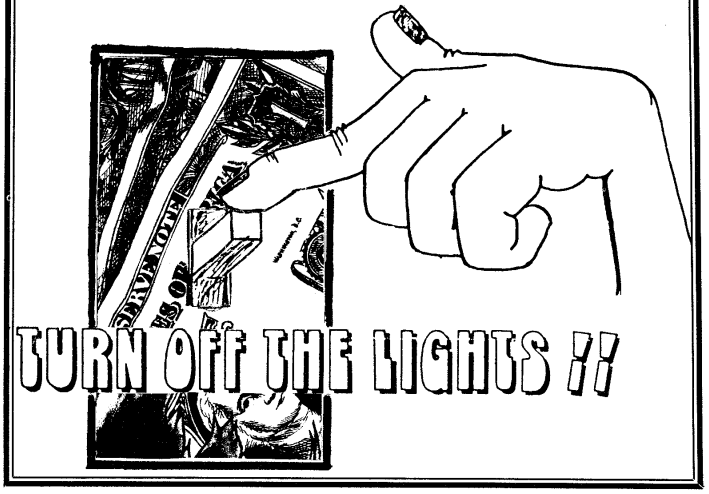
note: the Spiders Jim "Hollywood" Henderson has been unanimously inducted into the NADC Football Hall of Fame (based at China Lake, CA) after a long and glorious career making life difficult for opposing quarterbacks and low flying birds.

As I mentioned before, another big suprise this season has been the inspired play of an up-and-coming Lasers team. The Lasers have improved dramatically since their first year in the league; they have as many wins in the first half of the season as they did during their first two years in the league combined. The Lasers seem unaffected by the loss of Curt Swatchick, perhaps their best player, who sustained a season ending injury in an opening day win against the Dragons. The Lasers will probably clinch the final playoff spot since four wins usually obtains a playoff bid.

The next three teams in the standings are the Dragons, Pit Bulls and Gang Green. All are dark horses since they need to win their final three games to have any kind of shot at making the playoffs.

Finally there is the Blue Team. Blue, which have won three of the league's seven championships, have fallen on hard times. They are winless in four games with one of the losses a season opening forfeit to the rival Granfalloon team. Blue has been hurt by the retirement of some key personnel, most notably Captain and team guru Fred Kuster. Kuster, who cited a knee injury and family commitments as reasons for his retirement, will be genuinely missed around the league. Also on Blue's retirement list are John Bechtal and Moise Devillier, both big losses. Kuster's mammoth shoes will be filled by veteran John Santini, who will obviously need at least one season to get Blue back on track.

That is the status of the NADC Football League through Week 4 of the 1987 season. The playoff picture is coming into view, even without my crystal ball. See you at playoff time.

It only takes a second

Does a fluorescent light have to be turned off for a half-hour before the energy saved equals the energy used in initially energizing the light? No! But many people think so. The truth is fluorescent lights have to be turned off for only ONE SECOND in order to save the amount of energy that will be expended when the lights are initially turned on again.