



MARSHALL STAR

Serving the Marshall Space Flight Center Community

Sept. 2, 2004



Photo by David Higginbotham, Marshall Center

Marshall Center Director David King led the NASA Transformation Dialogue Show's discussion during its stop at Marshall.

NASA Transformation Dialogue Show answers tough questions

By Patricia Dedrick Lloyd

The NASA Transformation Dialogue Show was broadcast live from the Marshall Center's Propulsion Research Laboratory Aug. 23 and its panel took on challenging questions from the audience, the online dialogue forum and from e-mails submitted before and during the event.

Marshall Center Director David King led the discussion on Alternative Organizational Models. Headquarters officials Mary Kicza, NASA associate deputy administrator for Systems Integration and Lynn Cline, NASA deputy associate administrator for Space Operations, joined him on the podium.

The panel reviewed NASA processes to analyze alternative organizational models. Cline provided an overview of the team chartered to analyze alternative organizational models and the nuts and bolts of their objectives. Kicza discussed what the Agency wants as an end result – what are the critical aspects and considerations.

NASA's focus on Alternative Organizational Models intensified after the President's Commission on Implementation of U.S. Space Exploration Policy made recommendations for NASA that might enhance its capabilities to achieve the Vision for Space Exploration. One of those recommendations was to reconfigure NASA field centers as

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Leadership symposium draws 800

The Marshall Center's leadership symposium, *Leading in a Time of Change*, held Aug. 24, was a successful collaboration between the Center and its community partners to equip leaders for challenges that lie ahead.

The daylong event was held at the Von Braun Center in Huntsville and drew an estimated 800 participants from NASA, industry and the community. Nationally renowned speakers invigorated the audience and gave them the tools needed to grow and blossom as leaders and mentors. Marshall Center Director David King reiterated that leadership is not only for management, but for every

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Photo by David Higginbotham, Marshall Center

An estimated 800 people from the Marshall Center, NASA and the community attended the leadership symposium "Leading in a Time of Change." The Aug. 24 event was held at the Von Braun Center in Huntsville.

Transformation

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Federally Funded Research and Development Centers (FFRDCs).

King told the audience that the process of evaluating that model has just begun. “We need to consider and evaluate this organizational model and others carefully and methodically. No decisions have been made on the subjects and no decision will be made for a period of time,” King said. “We are looking for input from many sources.”

The NASA Organizational Model Evaluation Team (NOMET) has been created with representatives from across the Agency to look at each model. NOMET has 90 days to study the models and access what it will mean for the Agency.

“If changes were to be made, it would involve an evolutionary process that would require multiple steps over multiple years,” King said.

Team members may e-mail their questions and comments to the dialogue team for any upcoming transformation broadcast at transformation@nasa.gov. Everyone also is encouraged to take part in the continuous online conversations about the NASA transformation at www.insidenasa.gov.

Here is a sampling of some of the questions asked at the dialogue show at Marshall and the answers provided by the panel.

Q: How will NASA motivate and steer its scientific and technological workforce to achieve its long-term, multi-generational vision in a situation where that workforce may be motivated primarily by short-term industrial and market fluctuations rather than loyalty to the Agency, or and the mission?

A: Part of what we are doing as part of the transformation is to begin to think more strategically and more long-term. What we’re engaging is really thinking strategically and laying out the roadmaps that will allow us to achieve the Vision both from a technological perspective as well as from a communications perspective. That will allow us to identify where the strengths lie and where they actually are located — whether that be government or industry or academia, but it will also allow us to identify where the gaps are and where we need to begin consciously thinking about making the long-term investments to prepare ourselves for that future.

Part of the transformation process is heavily engaged with it being more strategic and making sure our near-term decisions are in keeping with long-term goals and objectives. Charles Elachi, NASA director of advanced planning, is laying out the strategy for the roadmap development and it is a process that will engage industry, government and academia. The roadmap will be co-chaired by NASA as well as non-NASA individuals. Typically, the chairing will be done at the field center levels. The centers will be actively engaged in this process. It really is looking at the longer-term objectives and how to achieve them. — *Mary Kicza*

Q: The approach of the Exploration Systems Mission Directorate is to take a system-by-system level view of the capabilities development over the next several decades. How do you get a bunch of squabbling centers, newly minted as FFRDCs — or some other alternate organization — in flush with an even greater degree of independence to leverage their individual competencies for

the good of exploration?

A: We have to look at the overall objectives of what we are trying to do here and look at this badge that we wear that says NASA on it. It does not say ‘center’ on it. And I think that no matter what organizational latch-up we have, we will work well with it. I don’t think an organizational model will have great bearing on that. I think it does point out that we have to work together and collaborate more. We have to understand where we need to compete and where we need to cooperate and what areas we need to compete in and what the critical roles are that each center needs to play and how we do business with that. I think we need to think hard what the appropriate role of the government employee is and how we integrate that with our industry partners and international partners. The more carefully we can design ways of working together and ways of performing our roles and collaborating in the areas that we need to collaborate — the better off we are going to be as an Agency.

I think this is an opportunity to continue with the One NASA mantra, to continue to learn from each other, and continue to collaborate and work together. This Vision is huge and I think the more we learn about it, the more we are going to realize how big it is and it is going to take every one of us in our own way figuring out how we can contribute to this Vision. I think there’s going to be plenty there for us to do. I don’t think it’s going to be squabbling as much as it’s going to be trying to figure out what role we should play — in government, industry and academia. — *David King*

The writer, an ASRI employee, is the Marshall Star editor.

‘Star’ Gazing

From the MSFC History and Archives Files

Forty years ago this week, in 1964, “The Beatles” were in the midst of their first concert tour of America. As the English quartet got ready to play Philadelphia’s Convention Hall on Sept. 2, the term “Space Shuttle” first appeared in the *Marshall Star*.

The *Star* reported that within two years a small “inter-satellite craft” called a “Space Shuttle” possibly could be ready

to haul cargo and assemble structures while in orbit. Uses of the small aluminum vehicle could include transfer of personnel and cargo from “one large orbiting space station to another;” assist in “assembling low-orbiting satellites;” handle maintenance and repair of “bases in space;” and perform emergency rescue missions. The vehicle would be “multi-windowed and equipped with radar and have batteries for electrical power, an inflatable bumper, and a service hatch with an accordion-type extendible shelter for maintenance and repair in space.”

Propulsion Research Laboratory Visitors Gallery welcomes guests



Harold Gerrish, right, and Dawn Christian visit the interactive exhibits at the new Propulsion Research Center.

The Propulsion Visitors Gallery welcomes guests to the new Propulsion Research Laboratory at the Marshall Center. A stroll through the gallery becomes a learning tour with various informational and interactive kiosks available for use. The kiosks describe the challenges of propulsion; give an overview of the four sources of propulsion under investigation at the laboratory; and describe each of those propul-



Greg Chavers, left, and Don Bai view the Electric Propulsion exhibit at the center.

sion sources: chemical propellants, electric propulsion, propellantless propulsion, and nuclear propulsion.

Eventually each of the kiosks will contain an interactive exhibit that will demonstrate fundamental principles basic to each propulsion source. The gallery was designed by the Marshall Media Relations Department and AI Signal Research Inc.

Exploded star image uncovers bipolar jets

From the Smithsonian's Astrophysical Center

A spectacular new image of Cassiopeia A from NASA's Chandra X-ray Observatory released this week has nearly 200 times more data than the "First Light" Chandra image of this object made five years ago. The new image reveals clues that the initial explosion caused by the collapse of a massive star was far more complicated than suspected.

"Although this young supernova remnant has been intensely studied for years, this deep observation is the most detailed ever made of the remains of an exploded star," said Martin Laming of the Naval Research Laboratory in Washington, D.C. Laming is part of a team of scientists led by Una Hwang of the Goddard Space Flight Center in Greenbelt, Maryland. "It is a gold mine of data that astronomers will be panning through for years to come."

The one-million-second (about 11.5-day) observation of Cassiopeia A uncovered two large, opposed jet-like structures that extend to about 10 light years from the center of the remnant. Clouds of iron that have remained nearly pure for the approximately 340 years since the explosion were also detected.

"The presence of the bipolar jets suggests that jets could be more common in relatively normal supernova explosions than supposed by astronomers," said Hwang. A paper by Hwang, Laming and others on the Cassiopeia A observation will appear in an upcoming issue of *The Astrophysical Journal Letters*.

X-ray spectra show that the jets are rich in silicon atoms and

relatively poor in iron atoms. In contrast, fingers of almost pure iron gas extend in a direction nearly perpendicular to the jets. This iron was produced in the central, hottest regions of the star. The high silicon and low iron abundances in the jets indicate that massive, matter-dominated jets were not the immediate cause of the explosion, as these should have carried out large quantities of iron from the central regions of the star.

A working hypothesis is that the explosion produced high-speed jets similar to those in hypernovae that produce gamma-ray bursts, but in this case, with much lower energies. The explosion also left a faint neutron star at the center of the remnant. Unlike the rapidly rotating neutron stars in the Crab Nebula and Vela supernova remnants that are surrounded by dynamic magnetized clouds of electrons, this neutron star is quiet and faint. Nor has pulsed radiation been detected from it. It may have a very strong magnetic field generated during the explosion that helped to accelerate the jets, and today resembles other strong-field neutron stars (a.k.a. "magnetars") in lacking a wind nebula.

NASA's Marshall Space Flight Center, Huntsville, Ala., manages the Chandra program for NASA's Office of Space Science, Washington. Northrop Grumman of Redondo Beach, Calif., formerly TRW, Inc., was the prime development contractor for the observatory. The Smithsonian Astrophysical Observatory controls science and flight operations from the Chandra X-ray Center in Cambridge, Mass.

Symposium

Continued from page 1

level of a growing organization.

“Leadership is not only having the knowledge of where you are going and then charting a course, it is also about inspiring people to stretch their imagination, find their potential, and go places they otherwise would not go,” said King. “Most importantly, leadership is a lifelong discipline that requires enthusiasm and commitment to pursue, coupled with a genuine desire to want to lead.”

The symposium brought together leadership experts, including former U.S. Rep. J. C. Watts of Oklahoma; best-selling author John C. Maxwell; business owner and consultant Thomas W. Dortch Jr. of Georgia; and Maj. Gen. James H. Pillsbury, commanding general, U.S. Army Aviation and Missile Command in Huntsville. Others from the Agency and the community joined them for a unique blend of backgrounds and experiences.

In addition to three general sessions, participants were invited also to attend specially themed panel discussions: “Leadership Through Inclusion” and “Leadership for the NASA Vision for Space Exploration.”

See more photographs from the symposium at: <http://www.msfc.nasa.gov/INSIDE/announcements/symposium/>



Photos by Emmett Given, Marshall Center

Former U.S. Rep. J. C. Watts of Oklahoma addresses the crowd at the symposium.



Best-selling author and motivational speaker John C. Maxwell displays a few of his leadership books while addressing the audience.



Tereasa Washington, right, director of the Customer and Employee Relations Directorate, listens while Maj. Cheryl Boone makes a comment during a panel discussion.



David King, Marshall Center director, gives Thomas W. Dortch Jr., a symposium speaker, a memento from the Center.



Maj. Gen. James H. Pillsbury, commanding general of the U.S. Army Aviation and Missile Command in Huntsville, makes a point during his presentation.



Alphonso V. Diaz, left, NASA associate administrator for the Science Mission Directorate, and Jefferson D. Howell, director of the Johnson Space Center, discuss "Leadership for the NASA Vision for Space Exploration."

Photos by Emmett Given, Marshall Center



Dr. Jan Davis, left, director of the Safety and Mission Assurance Directorate, and John Maxwell discuss 'Leadership Through Inclusion.'



Craig E. Steidle, left, NASA associate administrator for Exploration Systems, makes a point while NASA General Counsel Michael C. Wholley, the panel's moderator, looks on.



Ken Cooper, right, gives Craig Steidle, NASA associate administrator for Exploration Systems, a tour of the Rapid Prototyping Laboratory.



Susan Cloud, left, deputy director of the Customer and Employee Relations Directorate, greets J. C. Watts, right, chairman of the J.C. Watts Companies, as Tereasa Washington, director of the Customer and Employee Relations Directorate, joins them.

Job Announcements

MS04D0180 (Outside Hire), Physicist, AST-Basic Properties of Materials, GS-1310-14, Science Directorate. Closes: Sept. 3. Contact: Debbie Longeddy, 544-2308

MS04C0183, AST, Solid Propulsion Systems, GS-0861-15, Space Shuttle Propulsion Office, Reusable Solid Rocket Booster Project Office (Brigham City, UT). Closes: Sept. 3. Contact: Edwina Bressette, 544-8115

MS04D0184 (Outside Hire), Executive Support Assistant, GS-0303-08, Safety and Mission Assurance Directorate. Closes: Sept. 3. Contact: Rita Evans-McCoy, 544-7507

MS04D0185 (Outside Hire), Management Support Assistant, GS-0303-07, Customer and Employee Relations Directorate. Closes: Sept. 7. Contact: Edwina Bressette, 544-8115



Marshall Center wins award for WebTADS efforts

The Marshall Center received the 2004 NASA Agency of the Year Award for its Web-based Time and Attendance System implementation. From left are Susan Foster, Marshall's chief financial officer; Bill Vaughn, WebTADS project manager; Kathleen Griffin, president of the Federal Financial Management Council—Western Division; and Gwendolyn Sykes, NASA chief financial officer, who presented the award.



Michoud wins safety award

Sandy Coleman, right, External Tank program manager, presents the NASA Safety Award to Marshall Byrd, Michoud Operations vice president and general manager. Lockheed Martin Space Systems and Michoud Operations employees in New Orleans completed one year without loss of time mishaps.

Scientists discover new class of extrasolar planets

From NASA Headquarters Release

Astronomers announced Tuesday the first discovery of a new class of planets beyond our solar system about 10 to 20 times the size of Earth — far smaller than any previously detected. The planets make up a new class of Neptune-sized extrasolar planets.

In addition, one of the new planets joins three others around the nearby star 55 Cancri to form the first known four-planet system.

The discoveries consist of two new planets. They were discovered by the world renowned planet-hunting team of Drs. Paul Butler and Geoffrey Marcy of the Carnegie Institute of Washington and University of California, Berkeley, respectively; and Barbara McArthur of the University of Texas, Austin. Both findings were peer-reviewed and accepted for future publication in the *Astrophysical Journal*. NASA and the National Science Foundation (NSF) funded the research.

"NASA, along with our partner NSF, is extremely proud of this significant planetary discovery," said Al Diaz, Associate Administrator of NASA's Science Mission Directorate. "The outcome of the tremendous

work of the project scientists is a shining example of the value of space exploration."

"These Neptune-sized planets prove that Jupiter-sized, gas giants aren't the only planets out there," Marcy said. Butler added, "We are beginning to see smaller and smaller planets. Earth-like planets are the next destination."

Both of the new planets stick very close to their parent stars, whipping around them in a matter of days. The first planet, discovered by Marcy and Butler, circles a small star called Gliese 436 about every two-and-one-half days at just a small fraction of the distance between Earth and the sun, or 4.1 million kilometers (2.6 million miles).

The second planet, found by McArthur, speeds around 55 Cancri in just under three days, also at a fraction of the distance between Earth and the sun, at approximately 5.6 million kilometers (3.5 million miles). Three larger planets also revolve around the star every 15, 44 and 4,520 days, respectively. Marcy and Butler discovered the outermost of these in 2002.

Announcements

Get all the fun, food for one price at the Marshall Fun Day

The annual Marshall Center Family Fun Day will be from 10 a.m. to 2 p.m. Oct. 2 at the Marshall picnic grounds. Games, entertainment, concessions, food, soft drinks and bottled water will be offered for one price. Tickets are \$8 for children ages 4 to 12 and \$12 for ages 13 and older until Sept. 24. After that date ticket prices will increase. There is no cost for ages 3 and under. The children's parade begins at 9:45 a.m.

Tickets may be purchased from the Internal Relations and Communications Department in Bldg. 4200, Room 101; the Space Shop in Bldg. 4203; or administrative officers. Retirees may also purchase their tickets by mail from the Internal Relations department. For more information, call 544-1382.

Repairs begin on Patton Road bridge overpass

Repairs began in August on the Patton Road bridge overpass at Martin Road. The repairs were needed to replace three steel beams that support the bridge deck. During the repairs, the Patton Road bridge and the two eastbound lanes of Martin Road will be closed to all traffic. The repair work should continue until about mid-October.

Seminar on preparing for the returning veteran is Sept. 13

A free public seminar titled, "Are You Prepared for the Returning Vet" will be from 6 - 8 p.m. on Sept. 13 at the Corporate University Auditorium on Governors Drive. This seminar is to understand what effect combat can have on service members after they return home. Agencies that offer services to veterans and their families will be available to provide assistance.

Unified Account Management System is available for use

Marshall Center employees may now request accounts on the Web instead of using paper forms --- MSFC Form 4194, MSFC Form 4434, and IFM SF1700 --- by accessing the Unified Account Management System (UAMS). Users are able to request modification to existing accounts and request that accounts be deleted. The UAMS Web site is <https://arsweb.msfc.nasa.gov/uammainmenu.asp> Paper forms will still be accepted during the transition period. For more information, call the NASA Information Support Center at 544-HELP, option 0.



Sheppard named Shuttle employee of the month

Richard Sheppard has been named Employee of the Month for August by the Space Shuttle

Propulsion Office. Sheppard, team lead for the External Tank Project in the Shuttle Propulsion Systems Engineering and Integration Office, was cited for his dedication and exemplary performance. He has reviewed, coordinated and written test plans for the External Tank Project and has provided input to all Level III and Level IV External Tank Configuration Change Boards.

Retirees from Instrumentation Division Astrionics Lab to meet

Instrumentation Division Astrionics Lab retirees and friends will meet at 11 a.m. Sept. 7 at the Redstone Golf Course restaurant. For more information, call Tom Escue at 232-1549.

North Alabama-NASA Business Forum set for Sept. 20

The Huntsville-Madison County Chamber of Commerce and the Northeast Alabama Regional Small Business Development Council will hold a one-day workshop to learn how to do business with NASA and the Marshall Center on Sept. 20 at the Von Braun Center, North Hall. Representatives from the Marshall Center will discuss upcoming contracting opportunities. Registration fee is \$55 (\$45 for Chamber members) until Sept. 10. After that date, the fee increases by \$25. Register at <http://ec.msfc.nasa.gov/cgi-bin/sbd/forum/forum.cgi> or call the Chamber at 535-2027.

Rex Geveden to speak at reliability meeting Oct. 4-6

Marshall Center Deputy Director Rex Geveden will speak at the fall meeting of the Society of Mobility Engineers -- Reliability, Maintainability, Supportability and Logistics Division -- and Probabilistic Methods Committee. The meeting, Oct. 4-6 at the Huntsville Hilton, will provide industry, government and academia a forum to review RMSL technologies, reliability-based design methods, software reliability, and more. For more information or to register, go to <https://shop.sae.org/misc/regforms/g-11.shtml>

Redstone Arsenal approves gear for motorcycle riders

The reflective gear listed on the following Web pages has been reviewed and approved for daytime use by motorcycle riders on Redstone Arsenal by Maj. Art Riley, Redstone Arsenal police. The Web sites are: <http://www.tesco-shopping.com/protexionplus.htm>, <http://www.get2buynow.com/workshop/reflectivesafetytape.html>, <http://www.reflexsafety.com/proddet.php?IDArt=800>

Classified Ads

Miscellaneous

B-Flat clarinets, Leblanc Noblet, Model 40 wood, \$450; LeBlanc Vito plastic, \$200. 508-0952
 Jungle Jim playset w/fort, swings, & slide, \$400; two Queen Anne arm chairs, \$150. 464-9408
 Twin pedestal bed w/drawers, \$50; twin mattress & box springs, \$50. 468-4406
 MFJ-921 144/220 MHz tuner, \$50; MFJ-816 MF SWR/wattmeter, \$15. 931-703-5956
 Pearl snare drum w/case, sticks, pad, stand, key, lesson books, \$175. 882-6449
 Bedroom set, headboard/rails, nightstand, dresser, armoire, \$99; mattress/box springs, \$75; sofa & loveseat, \$400. 256-774-3312
 Swing set, A-frame, pressure treated, 10' legs, sturdy, \$85. 536-7906
 Short blue sofa, \$35. 430-6842
 Cherry bedroom suite: queen-size bed, mattress/box springs, chest-of-drawers, dresser/mirror, \$350. 722-9614
 Normandy4 LeBlanc clarinet, hardwood, cleaned, new cork & pads, w/case. 650-0456
 Husqvarna Viking 230 sewing machine, portable w/free arm, \$225. 656-2951
 Kincaid cherry wood 3-piece entertainment center, 6' high, 8' wide, \$1,200. 828-0756
 White gold engagement ring, 5 rows of diamonds totaling 1 carat, \$400. 256-776-9294
 Camper shell, fits LWB 1986 Chevy style pickup, \$100. 256-498-3194
 Glock 19 9mm w/two 15 round magazines, \$400. 652-3809
 Tree Lounge climbing tree stand for deer hunting, never used, still in box, \$150. 776-2563
 Courtyard Gold Lenox china, new pieces, four place settings, extras, less than half price. 519-9326
 PSE Carroll Intruder bow, let-off around 55, draw length 29-30", draw weight 55-65, \$150. 830-0889
 Lift chair w/3-way power, heat system, 5-motor massager, \$900. 256-837-3844
 Craftsman table saw, 10", \$100. 351-6992
 Solid oak dining room table, six chairs, two leaves, seats up to 10, \$225. 256-653-1783
 Drum sticks, practice pad, beginning drummer's video, \$25. 890-0755
 New Lane rocker/recliner, brown leather, king size, \$300 firm; new Sealy queen-size mattress set, \$300. 489-9604
 Palm Zire 71, Tungsten E, all accessories, MS Office CD, \$200. 684-1115
 Sears Craftsman 3.0HP electric lawn edger, triangular blade, \$25. 882-2369/Krebsbach
 Evenflo Ultra-I child car seat, up to 40 lbs., \$25; two-seat battery operated jeep, \$65. 256-723-

4983
 Walnut harvest table & china cabinet w/6 chairs and bench, \$500. 883-5543
 Seagull M6 acoustic guitar w/hard case, Fishman piezo pickup, LRBags preamp, 3-yrs. old, \$400. 256-859-5148
 Orient Express handmade Oriental rug & runner, must sell, \$3,000. 351-0468/Decatur
 Sears Craftsman 6" bench grinder w/light, new, \$35; Sears Craftsman 16" chainsaw w/case, new, \$110. 518-9942
 Thermo Grill2Go Fire & Ice roll-around portable grill/ice chest, new, \$100. 233-0705
 Bama tickets, two for Ole Miss & Western Carolina, corner South End Zone, top row, face value. 776-2263
 Alabama vs. Utah State tickets, Sec. U3-P, Row 21, four at \$30 each. 655-3065
 PIII Slot1 500MHz cpu, \$40; 8MB agp video card, \$10; Logitech cordless mouse, \$5. 765-532-4218
 Queen-size mattress, box spring and frame, \$150; Sears Lifestyler exercise equipment, \$100. 256-722-8570
 Chain link dog pen, 14.5Lx5.5Wx4H, \$25. 828-1041
 Soundblaster Audigy2 soundcard/6.1 channel dolby surround outputs, \$50. 931-703-5956
 Weider Pro 9940 gym, \$150; wedding dress, size 12, \$250. 256-858-5552
 Conn upright electronic organ w/bench, \$100. 508-4379
 1997 Cavalier mobile home to be moved, 16x80, 3-BR, 2-bath, stove, refrigerator, heat/air, \$17,500. 256-776-5095
 Older Warren & Sweat climbing tree stand, model has foot and gun rests, \$50. 461-7712/Ted
 Canon S450 printer w/ink, \$29; New Epson C84 printer, \$65. 489-0136
 Fiberglass topper from Mitsubishi Mighty Max pickup, sliding front, top & side windows, \$350. 256-461-7712
 Full-size short bed pickup fiberglass shell, needs rear window \$250. 256-881-4694
 Stainless steel kitchen sink, standard, w/2 basins, \$25; kitchen sink fixtures, \$15. 882-1779
 Computer desk, \$70; bathroom vanity, \$100; electric range w/microwave, \$100; treadmill, \$70. 256-534-0939

Vehicles

1976 C30 Chevrolet 1-ton truck, with steel bed dump, white, \$7,950. 256-776-4331
 1992 G20 conversion van, V8, 124k miles, \$4,500. 256-874-6498/Mark
 1991 Toyota Corolla, 4 cyl., automatic 125k miles, \$1,500. 256-464-9055
 2000 Sonata, v6, 2.5 ac, pw/pd/ps, tilt/cruise, stereo/cd, \$6,400. 653-4333

1988 Chevy van G20, v8/350, full-size conversion van, 115k miles. 534-7691
 2001 Kia Sephia, 4-cyl., auto, 64k miles, 4-door, \$3,950 firm. 256-572-1867
 2002 Echo, red, 2-door, manual, a/c, cd player, >30mpg, 16k miles, \$8,600. 650-5422
 1974 MGB convertible, red w/black interior & top, last model w/chrome bumpers, \$5,000. 489-0797
 1996 Cadillac Sedan DeVille, 75k miles, loaded, new tires, one-owner, green/tan, \$8,000. 828-8630
 1994 Lexus ES300 Emerald green/tan leather, new tires, belts, hoses, \$5,300. 520-3083
 1999 Mercury Grand Marquis, 120k miles, all-leather, \$8,000. 426-3203
 2001 Toyota Corolla S, black, auto, a/c, 39mpg highway, all-power, 98k miles, \$6,500. 256-426-2516
 1994 Nissan Maxima, 155k miles, \$2,000;
 1988 Mazda B2200 pickup, ext. cab, \$1,000. 746-1910
 1975 Ford F100 truck, blue, long bed, power brakes, engine problems, \$700. 535-8870/Pager
 1998 Ford Lariat F-150, \$12,000. 303-2187
 1995 HD Fatboy, 25k miles, black paint, lots of chrome, \$13,000. 679-8041
 2001 Mercedes C240, black w/tan interior, fully loaded, 39k miles, \$25,000. 256-880-7172
 2002 Heritage Classic 19k miles, new whitewall tires w/custom black paint, lots of chrome, \$18,200. 340-9450
 1990 Buick Park Avenue Electra, 178k miles, \$1,895. 679-6616
 1999 KIA Sportage, 55k miles, \$4,000; 1995 Camaro, need minor repair, \$3,500. 828-5246
 2003 GMC Sonoma extended cab, sport pkg., 15k miles, under warranty, \$14,000. 837-1774

Wanted

Fender Strat and a wooden swing set. 656-2965

Free

Custom-made car top carrier for 1981 Dodge B250 van. 650-5422
 Color computer monitor, 13", 640x480 VGA. 931-469-5536

Found

Eye glasses w/case. Call 544-3236 to claim/identify

Classified Ad deadline to change

Beginning next week, all *Marshall Star* classified advertising must be submitted by 5 p.m. on Friday to be included in the next issue.

MARSHALL STAR

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