

 SPERRY

TWINCITIES NEWS

June 1986



Burroughs Chairman W. Michael Blumenthal held a news conference in the Twin Cities about the merger of Sperry and Burroughs. See the story on page 1.

June 1986

Blumenthal pays visit to Sperry

On May 27, the Sperry Corp. board of directors approved a \$4.8 billion acquisition proposal by the Detroit-based Burroughs Corp., ending three weeks of negotiations between the two companies. The merger agreement is the largest computer industry merger to date and it will vault the new combined company into second place behind industry giant IBM.

Six days after the merger agreement was reached between Sperry and the Burroughs Corp., Burroughs Chairman and Chief Executive Officer W. Michael Blumenthal paid a brief but intense visit to Sperry's Twin Cities operations. Accompanying Blumenthal were three of his

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Burroughs Chairman and Chief Executive Officer W. Michael Blumenthal, second from left, accompanied by Sperry and Burroughs management, toured a part of Roseville's Information Systems Products and Technology facilities.

Symposium promotes technology exchange

An exchange of technology was the focus of the 24th annual spring Sperry Technology Symposium held May 18-22 at Gull Lake in Brainerd, Minn. A diverse group of 250 Sperry employees shared ideas through 105 formal presentations and many informal discussions on seven technology tracks—hardware development, software development, artificial intelligence, communications, manufacturing, system architecture and semiconductor technology.

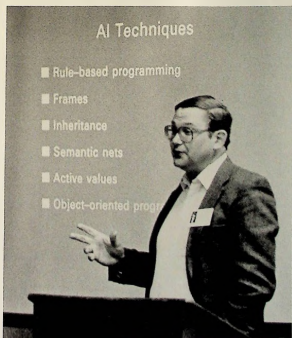
The four-day symposium, which originated in the hardware development area at Sperry's Roseville facility, brings together employees who are working in different technology areas within the company and allows them the opportunity to become better acquainted both professionally and personally. The open, informal atmosphere is conducive to a free exchange of ideas and the building of teamwork.

Willis Unke, manager of Technical Administration at Roseville's

Information Systems Products and Technology (ISP&T) facility, and chairman of this year's symposium, said, "A major purpose of the symposium is to widen our individual understanding of the various disciplines required to produce our complex systems."

Hatim A. Tyabji, group vice president and general manager, Information Systems Products and Technology, was one of the keynote speakers who addressed the participants. "The level of brainpower present in this room is awesome," he told the audience. "The past, present and future are represented here tonight." Tyabji characterized the participants' contributions already made as the basis for Sperry's position today, and challenged each individual, through continued contributions, to create more of the innovative, leading-edge ideas that bring accelerated growth and competitive advantage.

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Tom Turba, Systems Design, ISP&T, presented an overview of some of the more important techniques used in the construction of artificial intelligence programs. His paper was among 105 presented at the Sperry Technology Symposium.

Visit to Sperry

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senior executives: Paul G. Stern, president and chief operating officer; Hollis L. Caswell, president, System Products Group; and Fred R. Meier, vice president, Corporate Program Management.

During his two-day visit on June 3-4, Blumenthal toured the Semiconductor Operations in Eagan and the Information Systems Products and Technology (ISP&T) facilities in Roseville. He also attended management presentations by the Defense Products Group, Semiconductor Operations and ISP&T.

In addition to meeting Sperry employees and learning about operations here, Blumenthal also presented his views on the merger of Sperry and Burroughs. He spoke before approximately 60 Twin Cities Sperry executives at a dinner meeting on June 3, hosted by Sperry Chairman and Chief Executive Officer Gerald G. Probst.

In his address to Sperry management, Blumenthal relayed the reasons why Burroughs chose to merge with Sperry and how he expects the two companies to unite and become a stronger, more competitive force in the world computer market.

"Hopefully you will become enthusiastic collaborators in what I think will be a great and exciting adventure for the people at Sperry and the people of Burroughs," he said.

Blumenthal recognized that

the merger has raised many concerns and uncertainties for Sperry employees and manager, but he vowed to provide answers to those concerns whenever possible and as quickly as possible.

Blumenthal said the merger will create a single new company with a new name and a single management structure at the top. The company will be dedicated to two core businesses: worldwide information systems and defense/government information systems.

Over the short term, Blumenthal said Sperry and Burroughs will work together with their continued programs—continuing to meet quarterly goals. During the next six to nine months, a steering board and task forces will examine the issues of bringing the two companies together. These issues may include how to: coordinate product planning, develop a common sourcing structure, compare and contrast research and development, coordinate field engineering, develop joint marketing, etc. In addition, Blumenthal hopes to implement a program of cross-visitation for Sperry and Burroughs employees to get to know each other and each other's respective operations. Over the next year, Blumenthal said he would spend more than half of his time visiting Sperry sites around the world.

In his last action before departing from the Twin Cities, Blumenthal held a half-hour news conference for the local media. He told reporters that he was encouraged by his visit here and is enthusiastic about the many opportunities that are open to the two companies as they come together.

"A lot of networking developed as a result of both the presentation sessions and the recreational opportunities. All those involved in making this symposium happen did a great job," he added.

Chairpersons of the individual technology tracks for this year's



A visit to Sperry's Semiconductor Operations was the first of several tours for Burroughs senior management. Pictured from left are: Hollis L. Caswell, president, System Products Group; Fred R. Meier, vice president, Corporate Program Management; Paul G. Stern, president and chief operating officer; and W. Michael Blumenthal, chairman and chief executive officer.

In answering a reporter's question about how the acquisition might effect the level of Sperry's Minnesota employment, Blumenthal replied, in part, "There are no plans of any kind, at this time, for any layoffs or cutbacks that have anything to do with

the coming together of these two companies." He went on to say that he didn't think the merger would affect the average Sperry Minnesota employee at all and said, "Overall, if we do it right, it will be more exciting, and more enriching."

symposium were Frank Janisch, hardware development; Marc Graham, software development; Bruce Tenpas, manufacturing; Wes Grant, semiconductor development; L. Grant Hutton, communications development; John Switlik, artificial intelligence and Marilyn Payne,

systems architecture.

Sperry locations represented at the symposium included Roseville; Eagan; St. Paul; Bloomington; Blue Bell, Salt Lake City; Clear Lake; Bristol, Tenn.; Atlanta; Austin, Texas; Great Neck, N.Y.; Reston, Va.; Dorval, Canada and London, England.

Technology symposium

Continued from page 1

Referring to the symposium, Tyabji said, "The groundwork has been laid to promote a total flow of information between Information Systems Products and Technology and the Defense Products Group by establishing an environment that will foster creative and innovative thinking. We have a plan to pinpoint the brightest and best technological minds within the two organizations and give them the freedom to come up with the ideas that are so crucial to us."

In addition to Tyabji's address, the audience heard remarks from Kenneth H. Meinel, Sperry corporate vice president of Technology, New York.

Chris Christiansen, project administrator, Strategic Planning and Advanced Technology, CSD, who was symposium coordinator for DPG and Semiconductor Operations, said the symposium provided a good atmosphere for the technology transfer that occurred.

"The participants displayed a desire to enhance their knowledge and shared their information with each other," he said.



Recreation and relaxation allowed symposium participants to get to know each other on a personal as well as professional level.

System Base Release big step in customer quality

Imagine buying a car in component form—an engine, a chassis, doors, wheels, etc. After plunking down \$12,000 for your transportation needs, you face the task of assembling those parts into a workable automobile. To further complicate the problem, what if the manufacturer periodically sent you new and different components—a better engine say, or all new doors?

As unlikely as this scenario seems, it's somewhat analogous to the situation that has faced Sperry's customers for the Series 1100 operating system software. Software products were documented and tested as separate releases and this created numerous problems from the customers' point of view. "Bugs" in different combinations of products were often not discovered and corrected until they were in use at a customer site. In addition, improvements and corrections were not uniformly distributed to the customer base in a synchronized fashion.

"We were hearing a consistent message from our customers that we had a quality problem in the way we delivered our software," said John Champine, group manager, System Quality Release, System Products Division. "Basically, we weren't supporting our products long enough and we didn't test them and package them together."

To address that problem and improve software quality, the System Quality organization has created System Base Release (SBR) level 1R1 for all authorized 1100/60, 1100/70, 1100/80, and 1100/90 systems. SBR 1R1 is an integrated package of 69 key system software products that has been thoroughly tested to remove installation defects, fix a number of critical product problems, and correct many cross-product deficiencies—with the intent to increase the stability and reliability of the system.

The creation of SBR 1R1 began in February of 1985, when Gary Moerke, Test Group manager, initiated a new strategy for testing system release products. "We changed our whole testing approach," Moerke said. "We used real customer environments, not just synthetic test examples."

Seventeen Sperry analysts from both System Products Division and worldwide field operations were involved in the testing process. In addition, 12 Sperry internal production systems were used for testing as well as three

actual customer sites: Scotty's in Winter Haven, Fla; TNT Management Services (IS) in Greensboro, N.C.; and Southwire in Atlanta, Ga. The customers' sites ranged from an 1100/60 MAP-SPERRY/LINK environment to a large 1100/92 system.

After more than a year of effort and 23,000 hours of comprehensive testing, 2,700 corrections were integrated into the software package, 40 documents were corrected and 3,200 System User Reports (defect notices) were resolved.

According to Champine, the expense savings to Sperry in resolving the 3,200 System User Reports could amount to as much as five and a quarter million dollars. However, he said that the greatest attribute of SBR 1R1 is that it gives the customers what they want—an integrated package of Sperry system software that is as error-free as possible. "The whole thrust of SBR 1R1 is to avoid fixing the same problems over and over, and to get new fixes into updated packages quickly and easily that our customers can rely on," Champine said.

The first shipment of SBR level 1R1 was sent to Alcoa in Bettendorf, Iowa in early May. Other shipments prepared for delivery include the IRS Service Center in Martinsburg, W. Va., the Commonwealth of Virginia, and Walt Disney World in Orlando, Fla.

First Special Achievement dinner held

The first year of System Products Division's Special Achievement Award Program was capped off by a recognition dinner honoring 71 Twin Cities area System Products Division employees and their guests. Employees were selected for their outstanding work contributions during FY 86.

The Special Achievement Award Program, instituted by Hatim A. Tyabji, group vice president and general manager, Information Systems Products and Technology, while in his former position as group vice president, System Products Division, formally recognizes selected employees who meet significant project challenges by exhibiting outstanding work performance. The individuals selected are those whose contributions play a significant role in the attainment of key divisional goals and objectives—customer satisfaction, increased productivity, improved product performance and major cost savings to the company.

In addition to financial rewards associated with the program, the achievement award winners were honored at a special dinner hosted by Tyabji and his staff on Thursday, May 15, at the Minneapolis Plaza Hotel. A similar recognition dinner was held in Blue Bell to honor the 22 System Products Division employees there.

Speaking at the dinner in Minneapolis, Tyabji said that the success of the organization is dependent upon these "winners" and the quality work that they do. He also thanked and gave credit to the families and spouses of the employees for their behind-the-scenes support.

In view of the program's success within System Products Division during FY 86, Tyabji has announced the expansion of the Special Achievement Award Program throughout Information Systems Products and Technology in FY 87.



With SBR level 1R1 spread out before them, the System Quality team that was instrumental in creating the integrated package of key software products is pictured with Hatim A. Tyabji, group vice president and general manager, Information Systems Products and Technology. Pictured from left: Donna Pudwill, program manager; Paul Zbaracki, testing supervisor; Gary Moerke, test group manager; John Champine, group manager; and Tyabji.

Field repairs facility provides waterfront service

A recent open house formally launched operations at Sperry's Computer Systems Division (CSD) Field Repair Facility (FRF) in Virginia Beach, Va.

Managed by CSD's Product Operations, the 3,000 square foot facility offers an additional level of repair and overhaul services for CSD computers and

electronic equipment used by the United States Navy.

Previously, all CSD equipment that could not be repaired by field engineers on-site, such as aboard a ship, had to be sent to refurbishment centers in St. Paul or Clearwater, Fla. The FRF now provides an intermediate step—limited overhaul of equipment on

the waterfront—which improves turn-around time for the Navy. At the same time, it furnishes new business to CSD.

The FRF works closely with the refurbishment centers in St. Paul and Clearwater, the contracts department, the spares management department, marketing, program management, quality and engineering. Most were represented at the open house as were Navy representatives from Pennsylvania and

Virginia.

Construction of the FRF began two years ago, and Product Operations has fully equipped the facility over that period. Field engineers already assigned to Virginia Beach operate the facility between on-site assignments. The FRF has one full-time manager and a Quality representative.

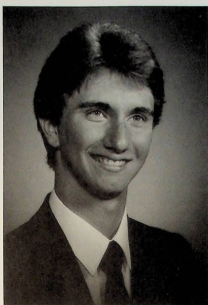
Product Operations plans to build and operate another FRF at the CSD site in San Diego, Calif.

Two local students win Sperry scholarships

by Barbara Fischer

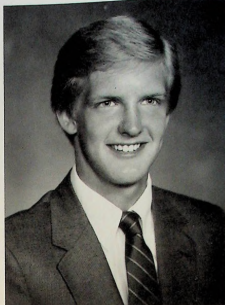
Two Minnesota high school students, Paul Ohmann and David Bergman, are recipients of four-year college scholarships sponsored by the Sperry Corporation. The two students are among the 15 sons and daughters of Sperry employees who won this year's scholarships.

Paul, son of Bernice and Leon Ohmann, staff engineer in Systems Development, Computer Systems Division (CSD), plans to study physics at the College of St. Thomas this fall. A student at Apple Valley Senior High School, Paul has been active in the Minnesota Math League, the Minnesota Science Olympiad and has been captain of the Quiz Bowl team for two years. This year, Paul placed fourth in the Minnesota Math League, second in the Mankato State Math Contest, second in the National Science Olympiad and first, second and third in three events at the Minnesota Science Olympiad. He has been selected Math Student of the Year and is a three-year member of the National Honor Society. Paul represented his senior class at commencement this spring as valedictorian.



Paul Ohmann

David is the son of Lynne and Roger Bergman, supervisor of systems configuration in Factory Support, Information Systems Products and Technology. He plans to study physics and religion at Northwestern University. At Robbinsdale-Armstrong Senior High School, David has been active in the chess club and the National Honor Society. He participated in a mentor program with the astrophysics department at the University of



David Bergman

Minnesota. David's hobbies include karate, computers, skiing, swimming and bicycling. He represented his senior class at commencement this spring as salutatorian.

Awarded annually, the Sperry scholarships are administered by the National Merit Scholarship Corporation, an independent organization. Through the National Merit Program, highly talented high school students are aided in obtaining college educa-

tions through scholarship grants. Now entering its 13th year, the Sperry program has awarded 170 such grants.

The scholarships range from \$500 to \$2,000 a year. Only children of active, full-time U.S. employees of Sperry are eligible. Finalists are chosen from students who score highest in a qualifying test of verbal and mathematical ability. Academic performance, leadership qualities and extracurricular achievements also enter into the final decision.

RECREATION NOTES



CSD EMPLOYEE PROGRAMS

Mark your calendars! The CSD Employee Picnic will take place July 26 and 27 at Cedar Lake Farms. Watch for more information on this annual event.

Congratulations to the Sperryaires Men's Choral Group which received ratings well above average for their performance at the "Big Sing," an event that combines 17 choirs of the Upper Midwest for a weekend of song and education. Well done!

Remember to watch bulletin boards and the Employee Programs Calendar of Events for information on special events, programs and services available through Employee Programs.

ROSEVILLE EMPLOYEE SERVICES

Roseville's Employee Picnic will be held July 27 at Valleyfair. Watch bulletin boards and Spectrum for more information on tickets.

Employee Services also reminds Roseville employees to consult bulletin boards for up-to-date information on all of its services, programs and special events.

CSD AND ROSEVILLE REC NOTES

Seasonal tickets now available through Employee Programs and Employee Services:

	<u>Regular price</u>	<u>Sperry price</u>
Canterbury Downs	\$ 3.00	\$2.25
Valleyfair	11.95	9.75
Twins	7.00 - 9.00	6.00 - 8.00

Enjoy summer in Minnesota with these discounted tickets as well as discounted vacation packages to the Wisconsin Dells, Apple River Campgrounds and more!

Employees holding a Guthrie Theater corporate discount card will be receiving their renewal in the mail. This card entitles holders to a 15 percent discount on all Guthrie mainstage performances. The 1986-87 season opens with "St. Joan" and tickets are available through the box office. For a discount card application, call or visit Employee Programs at Sperry Park (456-4182) or Employee Services in Roseville (635-5737).

The Sperry Bowling Association (SBA) announced the following results:

First place: R League
Richard Smith
John Slauson
Darrell Drumm
Dennis Flanagan
Dave Steward
Bill Watkins
Dave Sutch

Second place: X League
Bill Mueller
Ken Graber
Jim Feberli
Ken Benson
Harry Peacock
Harold Kulla

The SBA is looking for officers for the 1986-87 season. If interested, call Dale Schlichting at 661-6069.

Computers volunteer for Red Cross

Computers cannot predict the impact of earthquakes, hurricanes, tornados or floods. However, for the first time in disaster relief history, the Red Cross used computers to accomplish in days what could have taken weeks to do manually.

Before the dust had settled after the September 1985 earthquake in Mexico City, Sperry volunteers went to the Mexican Red Cross headquarters to offer their help. They didn't carry picks and shovels—they brought computers. By 9 p.m. the same day they were actively assisting the Red Cross and other disaster relief agencies.

"There was terror and confusion all around us. We had no idea how we could help, but we knew there must be something that Sperry could do to alleviate some of the suffering," said Antonio Ravize, marketing manager, Sperry Mexico.

The day of the disaster Sperry managers met with Mexican Red Cross representatives to determine their needs. The most urgent needs were up-to-the-minute records of injured people being treated by the Red Cross area shelters and hospitals, and also, to maintain data on deceased and missing persons.

"Our computer technology became a major resource for the authorities during the emergency," Ravize noted. "At first, we thought we were reinventing the wheel. But International Red

Cross officials told us that the program Sperry had developed overnight was the first of its kind. And, they could see its applicability to other disaster recovery operations around the world."

Sperry specialists immediately designed a program to generate casualty lists using the Sperry MAPPER® software program. Within hours after the first quake the Sperry system had all of the available information on casualties in its data storage files.

The computer listed casualties by name, patient number, type of injury and emergency medical treatment. This information, provided by volunteers, was keyed into the computer; lists were then distributed to physicians, nurses, paramedics, the Red Cross, the government and the media.

"Information on casualties reached us from a variety of sources, written on all kinds of materials, such as cardboard, napkins or matchbooks. We often received 20 notes on the same person. Even though information was often illegible or incorrect, the MAPPER system's flexibility allowed us to avoid duplication or other errors," Ravize said.

And then, one day after the first earthquake, a second shock hit the Mexico City region. The volume became a flood as information from more than 40 hospitals was transmitted to and received from the Red Cross

"computing center." The incoming data outpaced the storage capacity of the microcomputer being used and a larger computer, a Sperry MAPPER 5 system, was placed in service.

"In any emergency, conditions change by the minute. We worked around the clock constantly designing, revising and adapting the system to respond to an evolving situation. After the first few days of confusion, we were able to structure the information in a more orthodox manner," Ravize said.

The Sperry MAPPER system continuously updated information on victims, and tracked the progress and movement of hospitalized patients.

"We retrieved information from the computer files thousands of times a day. We had to determine if a missing person had been found in the wreckage of buildings, or if that person had been moved from a shelter to a hospital, or from one hospital to another," Ravize said.

Relatives of missing, injured or deceased people quickly obtained news of their loved ones through the computer listings. Businesses and government agencies were also assisted through computer lists.

"Sperry computers helped us locate 435 students, teachers and workers who had been trapped in a collapsed school building in downtown Mexico City," said Maricarmen Arriola, technical group coordinator, CONALEP. "The enormous task of finding the victims and notifying the families would not have been accomplished without computers."

Praising the work of the Sperry computer technicians and programming specialists who vol-

unteered their services, Ravize asserted "we had no time to plan or structure the system. We had to work fast and we did."

Sperry technicians worked closely with Mexican Red Cross volunteers, teaching them how to input information on casualties into the system. In addition, volunteers from a variety of occupational backgrounds involved in disaster relief efforts learned how to use the system—social workers, physicians, paramedics, volunteers, architects, engineers, technicians, lawyers and counselors.

In addition to the tracking system which monitored disaster victims, Sperry Mexico personnel developed a second program to monitor the supply centers. This program controlled the donations of food, medicine, clothing and other material assistance that poured into Mexico from around the world, as well as contributions from private companies and individuals.

The Mexican Red Cross has since become committed to future emergency preparedness. They are currently utilizing the computers to track blood supplies and donors, emergency volunteers and to coordinate disaster simulations.

Summing-up the experience, Ravize concluded, "Everybody involved learned something from this situation. There was an urgent need to be met. We're glad that our computer expertise contributed to this humanitarian effort and alleviated some of the suffering of the Mexican people. We hope our experience will benefit others in the future."

MAPPER is a registered trademark and service mark of Sperry Corp.

Vinton to entertain at CSD banquet

by Barbara Fischer

The Computer Systems Division (CSD) Service Award Banquet to be held Sept. 27 at the St. Paul Civic Center will feature Bobby Vinton as entertainment for the evening. This special event is for all St. Paul CSD employees celebrating a service award in this fiscal year.

Vinton has been an active force in the entertainment industry for over 25 years. He began his music career as a young boy in Canonsburg, Pa., the son of a locally popular band leader. His parents encouraged him to study music, and at 16 he formed his first band. The band played clubs around the Pittsburgh area and with the money he earned, Vinton financed his education at Duquesne University. He received a degree in musical composition.

From 1962-1972, Vinton's popularity was at an all-time high. During those 10 years, he had more number one songs

than any other single-act recording artist. Only three groups reached number one more often, the Beatles, the Supremes and the Rolling Stones. Four of his songs, "Roses are Red," "Blue Velvet," "Blue on Blue," and "There, I've Said It Again," climbed to the top of the ratings. As a result of these and many more hits, Vinton was awarded over a dozen gold records and albums and has sold over 25 million records.

Although Vinton is well-known for his singing ability, he has many other musical talents. A gifted musician, he plays the piano, clarinet, saxophone, trumpet, drums and oboe. These talents are displayed in his nightclub acts which headline Atlantic City, Las Vegas, and cities throughout the world. Today, he enjoys popularity among all age groups with his high-energy performances.

Service Award recipients for 1987 will soon be receiving formal invitations to the banquet for themselves and a guest. Upon request, employees will receive up to six complimentary balcony tickets to distribute to family or friends for the evening's entertainment with Bobby Vinton. Any remaining tickets



Bobby Vinton

will be available on a first-come, first-serve basis to any employee wishing to attend the show (limit of four per employee). Watch

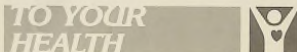
future issues of Twin Cities News and Spectrum for further information.



'Hi, Mom!'

Several special guests were among the Sperry families who enjoyed the traditional Mother's Day Brunch on May 11. Approximately 2,800 moms, dads, grandmas, grandpas and children enjoyed a buffet brunch at Sperry Park and Roseville cafeterias. Each mom and grandma at Sperry Park was presented with a geranium, and Roseville's special guests were given roses.

Telephone operators were kept busy as many took advantage of the 10 minutes of free long-distance phone calling. A television crew from WCCO was on hand to film some of the callers and the segment opened Channel 4's evening news. Organizers of the brunch at both facilities received great response to this annual event.



by Beverly Krogsgang

Most deaths and injuries from lightning are preventable if you know what to do when a thunderstorm is approaching. How informed are you about what lightning is and what safety measures to take when threatened by an electrical storm? Test yourself by taking the quiz below.

Circle One

- True False** (1) A bolt of lightning is a gigantic spark that can deliver a shock approximately 100,000 times as powerful as ordinary household current (120 volts).
- True False** (2) You don't need to worry about lightning strikes if the storm is at least a mile away.
- True False** (3) Air is a good conductor of electricity.
- True False** (4) The most frequent injuries result from the spreading of electrical current rather than from being directly struck by lightning.
- True False** (5) One of the safest places to be during an electrical storm is in your car.
- True False** (6) You are safer in a rural area during a storm than in a city.
- True False** (7) You should avoid using the telephone during an electrical storm but you do not need to unplug appliances.
- True False** (8) If you feel an electrical charge that causes your hair to stand on end, you should immediately lie down to avoid being a natural lightning rod.

Below are the answers:

- (1) **False.** A bolt of lightning is a gigantic spark with an electrical potential of up to 100 million volts. The spark occurs when a negatively charged thunderstorm cloud induces a positive charge on the ground for several miles around. This charge builds until it overcomes the insulation of miles of intervening air.
- (2) **False.** You should be concerned and take measures to protect yourself as soon as thunderclouds are seen or heard nearby. Lightning can strike in a wide area around a thunderstorm. It can

even come "out of the blue" by jumping out of the side of a thunderstorm and striking the ground many miles away.

- (3) **False.** Air is a poor conductor of electricity. The most conductive pathways are metal and water which is why you should get off the water and put down your fishing rod and golf clubs at the first sign of an impending thunderstorm.
- (4) **True.** Direct strikes to the person are the most dangerous, but indirect strikes which are the most frequent can also cause injury and death. Since lightning always follows the path of least resistance, it tends to choose the closest—usually the tallest—object when it strikes. That is why it is so dangerous to stand under a tall tree. Once struck, fingers of electrical current spread out on the ground or also in the water.
- (5) **True.** The safest places to be are in a house, large building, or all-metal vehicle (not a convertible with a non-metallic top) with the windows and doors completely closed. Your car is one of the safer places to be because the metal box gives the lightning a preferred pathway to the ground. Do not lean against the doors or hold onto metal parts or use your CB radio (except for emergency) until the storm ends. If you are in a house, it is safe to be by closed windows. Lightning can come in open doors and windows and strike whatever is in its path.
- (6) **False.** In general, you are safer from lightning injuries in a city than in rural or suburban areas because tall buildings attract the lightning charge and carry it safely into the ground.
- (7) **True.** You should avoid using the telephone especially in rural and suburban areas where telephone poles are frequently struck by lightning. The current can travel through the telephone wire and burn your face and damage your hearing. The risk of lightning coming into the house through the electrical system is small and usually it is not necessary to discontinue use of electrical appliances, unless you are living in a house that is isolated (for example on a hilltop) or if lightning has come in through your electrical outlets in the past.
- (8) **False.** You should not lie down. Instead you should get down on your knees, put your hands on your knees and tuck your head down. What you are trying to do is reduce your vertical height, but also minimize your contact with the ground, thereby reducing the chance that you will be hit by current spreading through the ground as well as by a direct bolt. In a boat, get as low as you can (below deck if possible), and stay away from the mast of a sailboat.

Information for this article was summarized from an article by Jane Brody, published in the New York Times Guide to Personal Health, "Lightning: Be Prepared for the Not-So-Impossible."

Beverly Krogsgang is the Occupational Health Services manager for Information Systems Products and Technology. She is a registered nurse and holds a Master's of Science degree in public health.

SERVICE AWARDS



Twin Cities DPG

35 Years



Harold Pyle

30 Years



Charles Berget
David Dahler
Gordon Erickson
Lauren Erickson



John Forster



Paul Frilseth
William Gutenkauf
Joseph Hutton
Arlene Iverson
Delores Johnson
Robert Leventzky
Mervin Moats
Mary Nalewaja



Robert Schilling
Joan Sheehan



Donald Shore
Robert Sorenson



Rebecca Beyer

25 Years



Louise Adcock
Edna Beclow
James Dabeik
Robert Eggen
Joseph Feller
Lowell Gemsey
Terry Graham
Burton Gusterson
LeRoy Haulala
Fred Hewitt
Theodore Hinck
Louis Hoffman
Janet Hosmer
Donald Huwald
Mildred Jackson
Martin Kamensky
Clifford Kuinen
Myron Lecy
James Lee
Harold Loder
Eugene McCarthy
Constance Mueller
Marshall Peterson
Randall Powell
James Rapinac

20 Years



Frederic Ahl
David Albree
Robert Beelman
John Bergman
Robert Deward
David Dunkelberger
Carol Elmore
Alan Foster
James Frisk
Daniel Gebhart
John Grape
Douglas Gustafson
Emilio Hall
Helle Holman
Richard Jostad
Clyde Ketselsen
Beverly Knippenberg
Lawrence Koral
Glenn Krueger
Rosie Lee
Ronald Lang
Richard Longsdorf
James Lorenzen
George Melasner
Antonia Morgan
Betty Notom
Cecile Ormiston
Floyd Pedersen
Arnold Portugal
James Sasthoff
Dennis Severson
Dennis Shevik
Michael Spartz
Woodrow Spitzmueller
Gordon Stage
Gerald Stafe
Arthur Stawst
Harvey Talpaie
James Thomsen
Alan Thomson
Dean Van De Walker
Grace Vasa
Robert Wacker

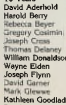


Robert Wacker



Dennis Swenson
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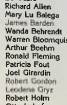
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COMMUNITY INVOLVEMENT



Monthly Visitor — Provide companionship, share interests and take a lonely, elderly person on social outings. Visit twice monthly. Optional support meetings provided. Only requirements are sensitivity and awareness of the needs and concerns of the elderly. St. Paul location.

Child Care/Educator — Agency serving Hispanic population needs individuals to provide child care and cultural orientation to children whose parents are in vocational training. Evening opportunities on Mondays, Wednesdays or Thursdays. St. Paul location.

Advisor/Friend — Assist economically deprived people with job applications, living skills, parenting, money management, etc. Training provided; Minneapolis location.

Current Events Interpreter — Bring weekly news items to senior citizens or adults with head injuries in a program to stimulate interest and discussion of timely topics. Materials and training provided; Wednesday evenings or weekends. Minneapolis location.

Dakota County — Volunteers are needed at a Dakota County agency in the areas of emergency services, telephone referrals, transportation or working in the clothing/merchandise "store." Free orientation and training provided.

FOR MORE INFORMATION, CONTACT THE REGIONAL COMMUNITY RELATIONS DEPARTMENT AT 456-4803 (SPERRY PARK) OR ROSEVILLE PUBLIC RELATIONS AT 635-7775.

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