VIP Club Newsletter

VOLUME 33, NO. 4 May 2013 http://vipclubmn.org

CALENDAR OF EVENTS

Wednesday, May 1 Wednesday, May 8 Wednesday, June 5 Wednesday, June 12 Any day in July 10:00 a.m. 7 p.m. 10:00 a.m. 4 p.m.

Board Meeting Program Meeting Board Meeting Grand Reunion Picnic No Club activities planned UNISYS MACS, Eagan UNISYS MACS, Eagan UNISYS, Roseville Highland Park, St. Paul Check the Periodic Groups for monthly gatherings

MAY PROGRAM: Defense Alliance Talk

<u>May 8th, 7</u> pm will be a program at the Unisys MACS building featuring Chip Laingen, Executive Director of the Defense Alliance. The Defense Alliance is a "national Advanced Defense Technologies Cluster based in Minneapolis-St. Paul. Its mission is to network and expand the region's defense industry, create and retain high quality jobs, and further promote the region's important contributions to our men and women of the armed forces." Director Laingen will talk about the Twin Cities defense industry history, its mission and focus areas and its current activities. [See directions to Unisys MACS, Eagan on page 8.]

JUNE PROGRAM: Grand Reunion Picnic

June 12th, 2013 – Our annual June members' picnic will be a *Grand Reunion Picnic* event at Highland Park beginning at 4 pm! If Club members have friends who previously worked for Lockheed Martin, UNISYS, or predecessor companies but haven't retired or joined the Club – All are invited!

We'll have purchased food instead of 'pot luck' and some beer in addition to the usual pop!

The charge is \$10 per couple or \$7 per person. If not a member, the attendee(s) will receive a one year club membership in addition to the meal and drink. If a member, the attendee will have his/her membership extended by one year.

Page 7 has the pre-registration form. **SUBMIT FORM BEFORE 5/15/2013**.

Although drop-ins or walk-ins would be welcome, they will be charged \$10 per person.

We'll be seeking volunteers to help at the checkin, name-tag table. Also to staff ½ hour shifts at the burger/brat grill as well as to do some post event kitchen clean-up.

[See directions to the Highland Pavilion on page 8.]

PRESIDENT'S MESSAGE From: Bob 'RC' Hanson

The Volunteer Breakfast on April 17th at the Roseville VFW was enjoyed by all the attendees. However there were several no-shows of people who said they would attend, they may have good reasons. The VIP Club would appreciate early notice from persons whose plans have changed so in the future we can avoid the extra expense. The events in the near future are: the Roseville Good Old Days on April 26th, the Norwegian Syttende Mai on May 17th, and the Grand Reunion Picnic on June 12th. We request that those planning to attend pre-register (Details of How) are provided on page 7. Respectfully, *Bob 'RC' Hanson*, VIP Club President

ANNOUNCEMENTS

May 17th will be the annual Norwegian Syttende Mai luncheon at Casper's Cherokee Sirloin Room, 4625 Nichols Road, in Eagan. Come and enjoy with fellow Norwegian-Americans, friends, spouses and associates. The cost will be \$16.00 for the buffet lunch with ribs, chicken, salmon, and beef stroganoff. The buffet will open at 11:15, and the program will start at 11:45. Reminiscing and socializing afterwards is



LOCKHEED MARTIN

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open-ended and encouraged. To sign up or for other information, email Dale Torgerson at dale.o.torgerson@gmail.com (ph. 612-597-3714) or Dale Phelps at rsanford@usfamily.net (ph. 952-831-7843). Email is preferred. The speaker for this year's program will be Jon Pederson, the chairman of the Norway House planning committee. Norway House is an endeavor being planned to provide Norwegian Americans with a cultural center similar to the American Swedish Institute. It will be located in the Minneapolis city block anchored at the southeast corner by Mindekirken, the Norwegian Lutheran Memorial Church. You can check out the plans at http://www.norwayhouse.org/about-norway-house.

Volunteers Wanted – Contact Harvey Taipale if you can help with the continuing photo identification efforts, now at the Lawshe Museum.

Contact Bernie Jansen if you are willing to help with the Legacy Exhibit planning and setup. Thanks to those of you who have already volunteered.

Future Programs – The program committee led by Dale Phelps [dphelps@usfamily.net] would welcome member ideas for an August 14^{th} group outing and for a September 11^{th} evening speaker in Eagan. We already have a commitment from Peter Hancock to talk about his three months in the Australian 'outback' during our October 9th pie and ice cream gathering in Roseville.

PERIODIC GROUPS

One breakfast group meets monthly at 8:00 a.m. on the <u>1st Thursday</u> of each month at Joseph's Grill, 140 South Wabasha, [Wabasha and Plato] St. Paul. Phone at the Grill is *651-222-2435*.

Another breakfast group meets monthly at 9:00 a.m. on the <u>2nd Wednesday</u> of each month in Gina's Café at the Eagles Club, Old Hwy 8, in New Brighton. Phone of coordinator is 763-416-3903.

One Luncheon group - [engineering/drafting] meets monthly on the <u>1st Tuesday</u> at 11:00 a.m. at the Old Country Buffet at 2000 S. Robert, in West St. Paul.

A Second Luncheon group [Unisys and Burroughs] meets monthly on the <u>2nd Tuesday</u> at 11:30 a.m. at the Mall of America 3rd floor North Food Court. We sit at the tables between the elevator and Burger King. Coordinator phone is 952-854-7855.

A Third Unisys Luncheon group meets monthly on the <u>2nd Wednesday</u> at 11:00 a.m. at the Old Country

Buffet, Holly Shopping Center, located at University Ave. and Mississippi St. just north of I-694. Coordinator phone is *651-552-1465*.

Dinner Club - A Unisys Dinner Club meets monthly, from September through April, on the <u>4th Wednesday</u>

at 5:00 p.m. at Champs located at 35E and Larpenteur Avenue.

NEW MEMBERS

Bergauer, Ed L	Roseville, MN.
Brink, Janie U	Burnsville, MN.
Fosler, Dick L	Eagan, MN.
Grimner, Charles L	Eagan, MN.
Montgomery, Tom & Linda L	Rosemount, MN.
Proctor, Kathleen L	Woodbury, MN.
Shutt, Bob & Mary L	Burnsville, MN.
Stachour, Dennis & Margaret L	Apple Valley, MN.
	B

Retired from: B => Burroughs; **D** => Unisys Defense Systems; **L** => Lockheed Martin; or **U** =>Unisys Comm'l

IN REMEMBRANCE



Bilski, Julian V.- Age 81 of Apple Valley, MN. Passed away March 21, 2013. He is survived by wife, Mary Jean (Becker). Julian spent many years in the computer industry with Univac and subsequently worked in business consulting

<u>Champine, George A</u>. - Age 78 of Hudson, WI. Lost his long battle with Leukemia on March 28, 2013. George is survived by his wife of 57 years, Barbara. George was a pioneer in computer technology. He was one of the first 2000 programmers in the world. As a graduate student he began work for Univac, where he wrote most of the software for the world's first airborne computer. He was part of the software development team for the Univac 1103 computer.



Homan, Charles J. "Chuck" - Age 84 of St Paul, MN. Passed away on March 19, 2013. He is survived by his beloved wife of 38 years, Midge. Chuck served as past president and Highland Park Pavilion procurer for the VIP Club. In 2009 he and Midge were granted VIP Club Member

Emeritus status in recognition of 6 terms of CLUB service as VP, President, Past President and a dozen years coordinating the Annual picnic.



Kampf, Kurt L. - Age 86, formerly of south Minneapolis, MN. Passed away on March 19, 2013. Kurt is survived by his wife Evelyn. Kurt was a dedicated and loyal employee for over 30 years at ERA, Sperry

Rand and Univac working as a senior field engineer.

After retiring in 1986, he enjoyed being with his wife and family, and spending time in the summer at Lake Kabetogama. His white hair, green <u>Starcraft boat</u> and pipe were familiar sights every summer on Lake Kabetogama in Voyageurs Park (Minnesota).

Kinsler, Bernard G. (Bernie) - Of Shoreview, MN. Passed away on February 26, 2013. He is survived by his wife Catherine. Bernie was a long time Unisys employee.

Kraska, Paul William – Born in 1938 and passed away in January 2013. Paul became a pioneer in Computer Science and retired from Unisys in 1993 to pursue advanced studies in spirituality. Paul is survived by his four children, his sister Diana, and many nieces and nephews.

Murnane, Robert "Bob" – Age 92 of St. Paul, MN. Passed away March 31, 2013. Bob is survived by loving wife of 69 years, Elise. Bob worked as an electrical engineer at Engineering Research Associates (ERA), then formed & ran his company, Murnco.

Palmer, Donald G. "Don" - Loving husband, father and friend Passed away on March 31, 2013 in New Braunfels, Texas. He is survived by his wife, Marilyn. Donald was born January 6, 1940 in Houston, TX. He moved to Minnesota where he lived for the past 44 years. Don was a former Unisys employee and member of the VIP Club.



Raveling, Jerry – Age 80 of Kill Devil Hills, NC, died on April 13, 2013 at home, from complications of a heart attack. Jerry was a Sperry retiree and a long time member of the VIP Club. Jerry is survived by his

wife Nina, who also worked at Sperry/Unisys. Jerry and Nina were long time volunteers at the Wright Bros. Museum in North Carolina.

Shipman, Max K. Age 69 of East Bethel, MN. Passed away peacefully on March 1, 2013, following an acute battle with leukemia. He will be dearly missed by his devoted wife, Georgene. Max was a Sperry/Unisys retiree.

Scheuneman, James E – Passed away March 20, 2013. James was a thirty year Unisys Employee. James is survived by his wife of 52 years, Janet.

Wischnewski, Ronald E. "Ron" - Age 70 of Blue Earth, MN. Passed away March 13, 2013 in his home. He is survived by his wife, Janine. Ron was a mainframe computer engineer for Unisys Corp. He retired after 38 years of service.



Wright, James E. (Jim) - Age 92 of Bloomington MN. Passed away suddenly on March 21, 2013 Jim worked for Engineering Research Associates (ERA) and later for Control Data. Jim is survived by wife, Barbara (Halverson). Jim was a long

time member of the VIP Club.

CONTACT DATA

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Frank King	Secretary,	651-774-0997
Keith Behnke	Director,	651-894-2182
Dale Phelps	Director,	952-831-7843
John Westergren	Director,	651-451-9009
Joe Schwarz	Director,	651-698-9698
Lowell Benson	Vice President,	651-483-3709
Tom Turba	Past President,	651-489-0779

Activity Coordinators:

CBI Liaison, Dick Lundgrer	n – rflundgr@aol.com
Christmas Dinner, Warren H	Becker, wrwbckr@aol.com
and Marion Scott, 651-4	155-7952
IT Legacy Committee, John	Westergren -
jwestergren@frontierne	t.net
Mature Voices Minnesota, E	Brian Berggren –
bbek@usfamily.net	
Membership & Recreation I	Leagues, Keith Behnke –
keithbhnk@comcast.net	t
Picnic, The Coordinator Pos	sition is open, contact any
board member to volunteer!	
Programs, Dale Phelps – dp	helps@usfamily.net
Roseville Good Old Days, T	om Turba –
tnturba@comcast.net	
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Lockheed Martin,	1-866-562-2363

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651-635-7712 651-687-2232

REPORT, WEB SITE REVIEW

This is the thirty-fifth in the newsletter 'Article-for-the-Month' review series for Club members without immediate internet access. By Lowell Benson

In September 2012 we posted <u>50 Years of Airborne</u> Anti-Submarine Warfare (ASW) Experience - A slide set from Les Nelson with comments by Lowell.

- UNIVAC, St. Paul (predecessor of LMCO Eagan) experiences **began in 1963** when we were contracted to deliver a modified airborne ADD 1000 computer to NADC as the first digital mission computer project. We were also contracted to do the mission software.
- In June 1965 we delivered the CP-823U, an NTDS software compatible airborne computer and an AN/USQ-20A for compiler support.
- In September 1967 we shipped the 1st CP-901 computer to NADC. - S/N 499 shipped in 1992, a 25-year AN/ASQ-114 systems production run! We developed P3C ASW software at St. Paul, MN; Johnsville, PA; Patuxent River, MD and Burbank, CA.
- *Bob Pagac*, retired LMCO program manager: "In 2012 there are still 40 CP-901s flying on Japanese P3C search & rescue missions."

The original 'application' software was written in 30bit NTDS compatible code. The current application software is written in ADA 95 C/C^{++} .

The ADD 1020, the CP-823, and CP-901 hardware used hardwired logic. The current hardware has embedded micro processors (Sparc and PowerPC) executing Solaris VxWorks DII COE runtime software. The first CP-823 and CP-901 code was generated with the CS-1 compiler. Current software is generated with the AdaMulti compiler.

Our Airborne ASW history is more than the P3C systems reviewed in the five slides provided by Les Nelson:

- We developed the hardware (AN/AYK-10(1832)) and systems software for the carrier based, Lockheed S3A.
- We developed the software for the Canadian Aurora program which used the P3 aircraft with an 1832 computer.
- We've tailored P3C systems for the Japanese, Australians, Norwegians, Dutch, etc.

In October 2012 we posted <u>UNIVAC Computers I</u> <u>Have Known</u> by Dr. George Champine. Paragraphs are copied here: "I joined Univac directly out of college in the spring of 1956. I stayed for 22 years, leaving in December 1979. The following is a summary of my early work at Univac in the Defense Systems Division. I transferred to the Commercial Division in 1970.

My first job was to do numerical analysis and programming for Project 2052-the world's first airborne computer. The project was called 'Project 2052' for reasons that I don't remember. It could be because the project was started in 1952. The project was to build an airborne digital computer that would accept signals from the aircraft radar to get the location, speed, and direction of the target, and then point the tail gun on the airplane, which was a B-24. Because of weight and power restrictions, the computer used a special architecture that was a Digital Differential Analyzer, which computed the change in values rather than the entire value itself. The computer had a small drum storage device and a 64 word core memory of one bit per word. It had a serial arithmetic unit. As I recall the computer was about one cubic foot and was operational in the summer of 1956.

The design of the computer was done mostly by Seymour Cray, who was a quiet, soft-spoken engineer/mathematician who stayed mostly in his office and developed the specifications. Cray had left the project before I joined the project, but I met him several times.

Most of our design and software development work was done on the Univac 1103 computer Serial 7 [the second generation after the 1101] housed in the old glider factory on Minnehaha Avenue. This machine was unique in that it was the first 1103 with a core memory in place of an electrostatic memory. Later it was called the Univac Scientific when it got hardware floating point. It was an immense vacuum tube super computer that occupied a room of 1,000 square feet. It was one of the largest computers in the world of its time. It had a main memory of 1024 36-bit words, and a drum memory of 16,000 36-bit words with paper tape input and output. The architecture was two address and ones complement. To print the output we had to run the paper tape through a Flexowriter, which had a paper tape reader and typewriter output. The memory drum was about 24 inches in diameter and about four feet long. The computer weighed 17 tons and required 45,000 watts of power. It could carry out 50,000 operations per second (such as an addition).

Subsequent to my leaving the project, the computer and my software were installed in a B-24 and flown successfully that fall somewhere in Texas. I learned many years later that it was the world's first airborne digital computer. I wish that I had known it at the time. I returned to college in the fall to continue working on a Master's degree in physics during 1956-1958. As part of getting the degree, I took the qualifying exam for a Ph.D. in physics. I passed the exam and was invited to continue on for a Ph.D. Through my work at Univac I knew that I wanted to go into computers and not physics, so I declined."

In 1958 George returned to UNIVAC to work on the Nike-Zeus system and other systems. He also has written about those experiences – too long to include.

REPORTS, ACTIVITIES

VOLUNTEER RECOGNITION BREAKFAST AND YEAR 2012 VOLUNTEER SURVEY RESULTS

On April 17th the VIP Club hosted the Volunteer Recognition Breakfast for the VIP Club members who performed Volunteer Services in 2012. The Breakfast was held at the VFW Club in Roseville (Breakfast photos taken by Nick Benson). A total of 101 Unisys and Lockheed Martin retiree members who responded to the *Newsletter* survey donated 21,181 hours to various charities in Minnesota, Arizona, Illinois, Texas and Wisconsin. Forty seven members and guests attended the Breakfast. Robert Hanson,



VIP Club President welcomed the attendees and Bernie Jansen, VIP Club event-chairman chaired the overall Program; he summarized the survey results recognizing all volunteers. He noted that the estimated value of the reported Volunteer Services contributed by VIP Club members for the year 2012 was over \$468,000.

Lockheed Martin Corporation was represented by John Westergren, Retired Senior Program Manager. John addressed the group in behalf of the Lockheed Martin IS & GS Eagan Facility. (The LM Site Manager, Scott Schmidt is expected to be available as the LM rep. for future events.)

The Unisys Corporation was represented by Chuck Lefebrve, Director of OS2200 ClearPath Programs.

Chuck thanked the Volunteers for their significant volunteer efforts and the image they portray of the Corporation.



Following the Management comments, Dale Phelps introduced several volunteers who described their volunteer activities in 2012, noting their personal satisfaction involved with these efforts.

Dick Lundgren and Harvey Taipale of the VIP Club Legacy Project summarized the significant progress



made over the past seven years. They noted that the relocation of the Legacy documentation artifacts such as Patent Applications to the Charles Babbage Institute was nearly completed in December 2012. Harvey discussed the relocation of the Legacy hardware artifacts to the Dakota County Historical Society Lawshe Museum in South St. Paul in December 2012. Harvey noted that the cataloging effort of thousands of legacy photos destined for the Babbage Institute which was not completed at LM last December is now an ongoing weekly effort at the Lawshe Museum and more volunteer help is needed. (Contact Harvey if you would like to help with this project.)

The excellent Program brochure was again prepared by Joe Schwarz, our Newsletter editor. Thanks are also due to Frank King who helped compile and acknowledge the 2012 Survey inputs received via Email and the website. Thanks also to Lowell Benson for pre-printing the name badges for the Breakfast and to Millie Gignac and Kathy Jansen for greeting and checking in the attendees.



Kathy Jansen & Millie Ginac

Twenty five VIP Club members who together donated 10,518 hours were recognized in the Program Brochure for their outstanding service: Lowell Benson, Bernard (BJ) Bertram, David & Kay Duncan, Gary Herman, Bernie & Kathy Jansen, Brent Jordahl, Frank & Johanne King, James & Lucille Lewis, Richard Lundgren, Jim & Marjean McGuire, IvaNell & Luther Monson, Jim Overocker, Joe & Nancy Schwarz, Marion Scott, Harvey & Gayle Taipale, and Tom &Virginia Turba.

Another seventy six members also responded to our survey: Dick & Jan Acquard, Ronald Anderson, Mike & Jan Bauer, Warren Becker, Keith & Susan Behnke, Nick Benson & Kathy Fossum, Brian & Barbara Berggren, Larry & Ruth Bolton, Calvin & Jeanette Buck, Tom & Laurie Burns, Barney & Ardella Buss,

Clinton & Carolyn Crosby, Hank Dotzler, Al & DeDe Edwins, Sam Fudenberg, Millie Gignac, Roger Gillette & Elaine Johnson, Nancy Gountanis, A. LaVonne Grover, Gary & Mary Ann Hagen, Glen & Donna Hambleton, Robert Hanson, Quintin Heckert, Robert Hedlund, Chuck* & Midge Homan, Larry Huff, Archie Lahti, Bob & Joyce Langer, Jim Larson, Vern & Marv Latwesen, Lynn & Paul Lindholm, Howard & Eileen Meier, John Metzer, Don & Marlys* Naaktgeboren, Leslie Nelson, Bob Pagac, Dale Phelps & Ruth Sanford, Earl & Karen Printz, John & Shari Rachac, Ashok Sabherwal, Jack & Louise Sater, Robert Scholz, Thomas Schonebaum, Rollie & Jan Schwitters, Walter Strey, Donna Sylvester, Dick Syverson, Tom Weidenkopf and Earl & Darlene Westlund. (An * denotes a deceased volunteer.)

The Year 2012 Volunteer Activities performed by members and the hours donated to the various organizations summarized by Categories are shown in the following Table:

1.	Community and Related Services	5,639 hours
2.	Meals, Food and Housing Services	2,446 hours
3.	Health and Disaster Services	2,020 hours
4.	Religious Support and Related Services`	4,999 hours
5.	Schools, Museums, and	
	Educational Services	1,895 hours
6.	Music and Theatrical Services	171 hours
7.	Other Services (includes VIP Club	
	<u>& LEGACY Project)</u>	4,011 hours

TOTAL DONATED VOLUNTEER HOURSFOR YEAR 2012:21,181

Submitted by Bernie Jansen

Sports and Recreation: by Keith Behnke

GOLF The combined Unisys - Lockheed Martin golf league, now called the Unified Legacy Golf League (ULGL), has restructured because of the loss of members due to Lockheed closing most of their activities in Minnesota. We now have 2 leagues at Emerald Greens, 1 at Phalen, 1 at Bunker Hills, and 1 at Valleywood. Additional individuals or teams are still welcome to join us. Members can be current or former Unisys and Lockheed employees, their relatives, and friends. We will have tournaments starting in late April and league play starting in early May. Contact Keith Behnke, <u>keithbhnk@comcast.net</u>, if you are interested and I will connect you with a League Rep. or team Captain.

IT Legacy Committee: by Lowell Benson

If you are willing to exercise your planning and leadership skills, please contact me or John Westergren or Bernie Jansen. We are in need of someone to lead the Display Setup project at the Lawshe Museum.

<u>Phase I, 2013</u>: Cataloging the collection and recruiting volunteers to - ascertain which items to use, how to use them in an exhibit, skills needed to stage a demo scenario, and which hardware is duplicated.

<u>Phase II</u>, 2014: <u>Preserving</u> the Legacy - Exhibit planning, artifact conservation, research support.

<u>Phase III</u>, 2015: Exhibit construction, digital asset creation, educational programming development.

These efforts are independent of the ongoing Photo Identification project presently led by Harvey Taipale.

LIGHTER SIDE

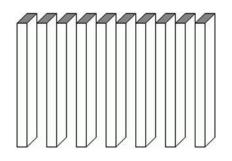
MUSIC SOLUTION: Ole bought Lena a piano for her birthday. A few weeks later, Lars inquired how she was doing with it. 'Oh,' said Ole, 'I persvaded her to svitch to a clarinet.' 'How come?' asked Lars. 'Vell', Ole answered, 'because vith a clarinet, she can't sing'.

'Better Mottos' from a Northport Engineering card: "DOUBLE YOUR PLEASURE XEROX YOUR PAY CHECK.



Picnic Menu: We'd like to serve this new soup at the Syttende Mai luncheon and at the June Grand Union Picnic. Please advise the event planners if you've found it on a store shelf.

The Draftsman: 2. How many fence posts, 7 or 10? Count at the top then at the bottom.



FORM: PICNIC REGISTRATION

- Fill out and mail the form below to Keith Behnke 4652 Westwood Lane, Eagan, MN 55122

OR -

- To the VIP Club P.O. Box listed at the form's bottom.

<======C U T H E R E =====C U T H E R E =====C U T H E R E =====>



PICNIC REGISTRATION FORM: \$7.00, 1 person _____ or \$ 10.00, couple____, SUBMIT FORM BEFORE 5/15/2013.

Member (\geq 55) __, or Associate (<55) __: Address Change __, New to the VIP Club __,

Name	First	M.I.	Spouse's Name	_
Street Address or P.O. Box	City		State	Zip Code
Primary Telephone Number	E-mail address	<u>@</u>	•	
Newsletter delivery preference is:	Electronic (DSL or faster	recommended)	or U.S. Mail	
Employer is/was: UNISYS, L Include my data in the Club's Director		0 1	•	es! ©11/29/2012
MAIL THIS FORM WITH	A CHECK TO: VIP Ch	ub P.O. Box 1317	48 Roseville, MN	55113-

<======CUT HERE =====CUT HERE =====CUT HERE =====>



P.O. BOX 131748 ROSEVILLE MN 55113-0020

DIRECTIONS TO ACTIVITY SITES

Car-pool if possible or contact a board member for possible 'ride-with' suggestions.

Directions to Unisys MACS in Eagan: Set your GPS unit to Eagan MN, 3199 Pilot Knob Road. <u>From Hwy 35E</u> take the Pilot Knob Road exit ramp. Then go north on Pilot Knob Road about ¹/₂ mile to Tower View Road. We use the Unisys north parking lot and the visitor entrance thereby.

Directions to Unisys in Roseville: Set your GPS unit to Roseville MN, 2470 Highcrest Road. From Hwy 35W north, exit onto W County Rd C, go west a mile, then turn left onto Walnut St. Then turn right onto Terminal Road for half a block, turn right at Highcrest Rd. to building entrance. From 35W south, exit on Industrial Way / St. Anthony Blvd off ramp, turn left, drive under the freeway, then turn right onto Walnut St. Follow it 0.8 mi north then turn left on Terminal Road. Go ½ block and enter the UNISYS parking lot on the right. From Hwy 36 east, drive west until 36 joins Hwy 35W just past Hwy 280, then exit at the Industrial Way / St. Anthony Blvd. off ramp of 35W. Go north on St. Anthony Blvd. to Walnut St. [the first street on the right]. Turn right onto Walnut Street. From Hwy 280 northbound, use left lane exit just past County Rd B for Terminal road access [St Croix St.] Turn left at Terminal Rd, then 1.5 mi to Highcrest Rd. **Directions to the Lawshe Museum in South St. Paul:** Set your GPS unit to South Saint Paul, 130 Third Avenue. From the Roseville area, take Hwy 36 to I-35E south toward downtown St. Paul. Get into the left lane then take the I-94/Hwy 52 left exit to merge onto Hwy 52 going south. 3.4 miles later, take the Butler Ave exit and turn left. Go 0.7 mi and turn right onto MN156 S. After 1.8 mi, turn right onto Grand Ave. W – Drive up the hill a block and turn left, the parking lot is then 400 ft. on the left. From the Eagan area, take I494 toward the Mississippi river then take exit #65 onto 7th Ave. Turn left and drive a mile to Southview Blvd, turn right at the light. After 0.3 mi, turn left onto 3rd Ave – the museum parking lot is then 0.2 mi on the right.

Directions to the Highland Park Pavilion in St. Paul: Set your GPS unit to St Paul, 1200 Montreal Ave. From the Roseville area; take 36 to 35E going south through the city, exit at W 7th (Hwy 5) and turn right. After three blocks angle right onto Montreal Ave and drive uphill ½ mile. The Pavilion is on the left. From the Eagan area take 35E north toward St. Paul, exit at W 7th (Hwy) 5 and turn left. Proceed to Montreal Ave angling right and drive ½ mile. From St. Paul, find Snelling Avenue, drive south to Montreal Ave then turn left. Drive ¼ mile to Pavilion on right.