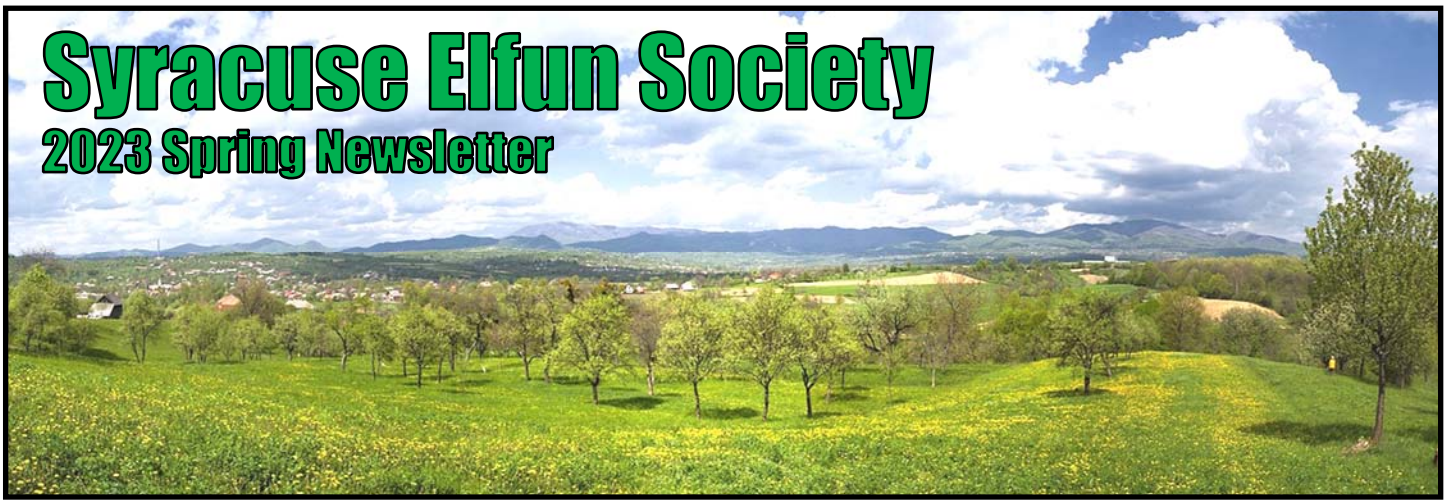
Syracuse Elfun Society

2023 Spring Newsletter



We have been saddened to learn of the deaths of the following current or former members of the Syracuse Elfun Society:

- **George Oehling**, 88, of Syracuse, died in his Onondaga Hill home on Wednesday, February 15, 2023.
- **John Phillip Biggs**, born to celebrate and explore the world, died on January 9, 2023 in Springville, Utah at the age of 92.
- **Richard A. (Dick/Pop) Carta**, 86, was reunited with 'the love of his life', Adrienne (Bertini) Carta on January 29, 2023, encircled by his loving family.
- **Roger L. Pape**, 87, of Liverpool, NY passed away on February 24, 2023 at home, soon after the drastic spread of metastatic melanoma, surrounded by family to the end.

Complete obituaries for local individuals may be found online at **Syracuse.com/obituaries/Syracuse**. If you are not able to locate an obituary, an e-mail to **steve.auyer@gmail.com** will get you the obituary by return e-mail.

In This Newsletter

Social Events

Elfun Family Day at the Ballpark
Sunday July 16 @ 1:05 pm

Let's have another nice big Elfun crowd to cheer on the Mets. Our annual outing will be on a Sunday afternoon when the Mets host our Thruway rivals, the Rochester Red Wings, now an affiliate of our former parent club, the Washington Nationals. Perhaps we'll recognize some of our former players on the opposing team.

The Mets will once again assign us, all by ourselves, to the left field terrace. We can move around, mingle with our friends, and enjoy direct access to the berm. Your ticket package includes your seat in the wonderful and spacious left field terrace, and still provides $5 food per person and a parking pass for each family. What a bargain! A new sponsor had stepped up for Kids Eat Free. Here's the information from the Mets website.

"Sundays are for the kids! Every Sunday, all kids 12 & under will receive vouchers upon entry for a FREE kids Hofmann hot dog, a 12 oz. Coca-Cola fountain drink, a bag of chips & a kids Perry's ice cream cup, all brought to you by Friendly Honda of Fayetteville!

After the game on Sunday, all fans are welcome to join us on the field to run the bases (excluding May 28th & July 2nd), courtesy of East Syracuse Chevrolet, a member of the West Herr Auto Group."
This is a family event, and we welcome all Elfuns and extended family members. Bring along your aunts, uncles, cousins, kids and grandkids! The more, the merrier. The flyer is included with this newsletter, so reserve your tickets today for this fun afternoon.

Broadway & Dinner in the Finger Lakes
Tuesday August 29 @ 2 pm

We have reserved this date for the 2 pm matinee of "Beautiful", the musical which reflects the life and career of Carole King. Even if you don't recognize the songs she herself has recorded, you will be familiar with some of the over 100 she has written which have charted on the Billboard Hot 100.

Her album Tapestry is part of the soundtrack of the 70's. For over 20 years it held the record for the most weeks that an album by a female artist held the #1 position. She has four Grammys, has been inducted into the Rock and Roll Hall of Fame twice, once as a songwriter and once as a performer, and is a Kennedy Center Honoree. Whew! We will come away amazed at the breadth and longevity of her career.

REV Theater will seat the majority of us in Rows G-J and has reserved five seats (which will not require steps) in Row D. Our after-theater dinner will again be at the nearby Springside Inn. This flyer is also included in the newsletter. Gather your Elfun friends and make your reservations.

New Members?

In 2015, the Syracuse Elfun Society was incorporated in New York State as "A 501(c)(7) Not-for-Profit Corporation". Our charter states: "Membership. The Members of the Corporation shall consist of individuals who are **current employees**, **former employees**, or **retirees** of the General Electric Company ('GE')". We interpret this clause to include spouses of the employees or retirees.

Several members have indicated that they know some former co-workers who might be interested in joining the Syracuse Elfun Society. What seems to work well in those cases is for you to let the prospective member know that we can easily put them on our mailing list for a short trial period. Tell them to send an e-mail to steve.auyer@gmail.com, providing their home and/or mailing addresses, and phone number. Don't use e-mail? Mail the request to:

Syracuse Elfun Society
PO Box 36
Liverpool, NY 13088-0036

We'll respond to them, indicating that we've heard that they might be interested in joining and enclosing a copy of the most recent newsletter. When the next newsletter comes out, we'll send them a copy of that, along with an application form that they can fill out and return with their dues payment if they wish to join.

George Kirkpatrick at 103

The following article appeared in the Vol. 35, No. 2 edition of **HISTORY Highlights of the Onondaga Historical Association**

George Kirkpatrick has been a faithful member of Onondaga Historical Association for more than 40 years. After reading Dennis Connors' article on the Kirkpatrick Brothers in the Spring/Summer 2021 edition History Highlights, the 102-year-old retired engineer called OHA with a question. Would we help him

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determine if the influential brothers who left much of their estate to the organization is a potential relative?
An amateur genealogist, George has been a contributor and editor of the Kirkpatrick Family Newsletter for more than 40 years. The newsletter membership grew by word of mouth and a small publication budget. It traces the branches of the Kirkpatrick surname (and its variations - Killpatrick and Kilpatrick) across the globe. Members submit photos, family trees, maps and appeals from various members seeking those missing details on the branches that have seemingly hit a dead end.

The Kirkpatrick brothers of Syracuse appear in a newsletter edition from the 1990s. At the time, George had not yet made the connection to their relationship to OHA. There are confirmed records of Kirkpatricks leaving Scotland and settling in Antrim, Ireland, where George's predecessors settled, so he has set to work trying to find the potential familial link to the Syracuse salt barons.

"Thanks to my membership, and the story in History Highlights, I may find I am related to a long line of Kirkpatricks who support OHA."

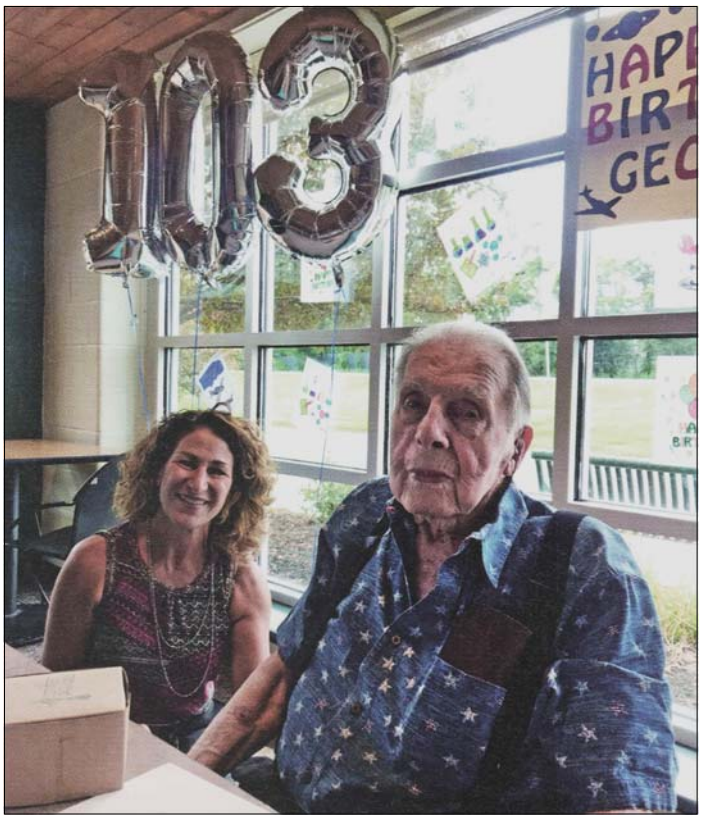
Genealogy is not the only passion for the centenarian. George enjoyed a successful career in General Electric's Electronics Lab and Syracuse Research Corporation developing advanced circuitry, telemetry, radar, and guidance systems. He joined GE's Advanced Engineering Program shortly after earning his degree in electrical engineering from the University of Illinois in 1941.

In the mid-1940s George's research was utilized in the Manhattan Project, although he had little knowledge of its application due to the stringent security measures inherent in the program. After the end of World War II, George recalls attending GE's opening of its aviation division in the former home of Wright Aviation near Dayton, Ohio. Among the guests was Orville Wright, who was reportedly saddened by the evolution of aviation into a military industry that delivered such massive destruction.

After time spent working for GE in the White Sands Jet Propulsion Laboratory on missile borne electronics, George was brought to Syracuse where he oversaw the Electronic Equipment and Systems Laboratory. He settled in North Syracuse with his new bride Muriel (nee Barry), who was also working for GE when the two met at the company's research center in Schenectady. Together they raised three sons.

Vocation inspired avocation, and George took up flying in his early career. He enjoyed the hobby into his 80's, often joined by Muriel. The couple would fly from Oswego Airport to enjoy lunch at a destinations such as Old Forge or the Thousand Islands and then return home. They were also active skiers and participants in the Elderhostel program. Sadly, Muriel passed away in 2019.

George turned 103 on August 17th. He celebrated with friends at the YMCA, where he still exercises a few days a week. He kindly contributed a ten volume collection of his newsletters to the Richard and Carolyn Wright Research Center for future Kirkpatricks to use in their research.



George Kirkpatrick is joined by OHA's Lisa Romano Moore to celebrate his 103rd birthday.

Dues Are Due

The upcoming Syracuse Elfun Society dues year runs from July 1, 2023 to June 30, 2024 so it's time once again to renew your membership and pay your dues. Dues are $20.00 per year and offer members a variety of social activities, our quarterly newsletter, and additional information updates throughout the year.

Our social events are restricted to members whose dues are current (as well as surviving spouses who are not required to pay dues) and their guests. If you attend even one social event you recoup your investment in our organization as you enjoy the camaraderie of your fellow Elfuns. Moreover, dues paying members and surviving spouses receive our quarterly newsletter.

Our newsletter, which keeps our members abreast of the activities of the chapter, provides

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in-memoriam notices of those who have left us, updates news about GE, and offers a great deal of history of the company in general and Syracuse in particular. Our members are spread across close to two dozen far-flung states and provinces. Many of you may not attend events in person, but we hear so many comments about how the newsletter keeps us all connected to those GE and Syracuse roots.

The production and postage costs of the physical newsletter comprise the majority of our budget. We encourage you, if possible, to opt for our digital format sent to you by e-mail. in addition to receiving your newsletter earlier, we send out occasional items of note to digital subscribers.

"Man-Pack" Radar In Syracuse

The following article, appearing in the April 11, 1966 edition of **AVIATION WEEK & SPACE TECHNOLOGY** magazine, describes the competitive development of 3 "man-pack" radars by **General Electric**, **Emerson Electric** and an in -house project by the USAF's **Rome Air Development Center**. The **General Electric** radar was featured prominently on the cover.

(Portions of the article not dealing with the General Electric radar have been omitted.)

'Man-Pack' Radars Readied for Evaluation

Ground-based air-surveillance radars that weigh less than 200 lb. including primary power sources, enabling them to be "man-packed" into remote combat areas by six men and placed in operation within 1 hr., are slated for evaluation later this year (1966) in Vietnam.

The new man-pack radars, one developed as an in-house project by USAF's Rome Air Development Center and the other two by Emerson Electric and General Electric under RADC sponsorship, are typical of the many programs here which reflect the increased emphasis on limited warfare.

The three different man-pack surveillance radars originally were developed for several possible limited warfare uses. One is used as a gap-filler in mountainous terrain for an air defense network enabling the network to detect low-flying enemy aircraft or parachute drops. Another potential use would be to enable forward air controllers to direct friendly aircraft. The program was initiated in the fall of 1964 and experimental equipment were delivered last fall for tests.

The design objective was to use solid-state devices wherever possible to slash size, weight and power consumption. The Emerson and RADC radars employ tubes only in the final power stage of the transmitter and in the cathode-ray tube display. The **GE** radar used a tube modulator; the other two sets have solid-state types.

The three different radars were built to evaluate several techniques and frequencies. The Emerson and **GE** sets operate at L-band while the RADC radar, called the AN/TPS-42, operates at a lower frequency in the UHF band. Where Emerson employs conventional pulse radar techniques, **GE** used pulse Doppler. All were designed to provide air surveillance out to approximately 50 mi.

The solid-state design has paid off not only in size, weight and power consumption, but also in excellent reliability. Once the experimental equipment had been debugged, no failures occurred in tests conducted at RADC or those run later on the Emerson and AN/TPS-42 radars at Eglin AFB, Fla., according to Joseph Eannirino, head of RADC's surveillance equipment development branch.

Prototype versions of the Emerson and RADC radars are now being procured in a slightly repackaged configuration for the Vietnam tests later this year. The **GE** radar, lightest of the three, with a weight close to 150 lb., "is being adapted for other applications," according to Eannirino. The fact that it uses Doppler techniques, which facilitate detection of moving targets, prompts speculation that it may be

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evaluated for protecting airbases against enemy personnel intrusion.

The **GE** radar resembles a giant periscope in its construction, with the operator sitting at the foot of its 15ft. high antenna mast looking into the cathode-ray tube display mounted near the base of the tower (see cover). The radar receiver is mounted atop the mast near the dish while the transmitter is at the base within the operator's display box. Similar construction is used by Emerson, except that it is designed for a remotely located operator display. A remote display also can be used with the **GE** radar, if desired.

The prototype models destined for Vietnam are expected to use a 30-ft. high mast to assure an unobstructed view over jungle foliage. Because the RADC radar operates at lower frequencies, it requires a larger antenna but its 27-ft. parabolic dish, one of two constructed, has been fabricated out of thin metal tubing and stretched wire screen to hold down its weight and cost.

The radars are designed to enable them to be disassembled and carried in six small packages, none of which weighs more than 35 lb. This includes the two-cycle combustion engine-driven generator which provides primary power, but does not include engine fuel. The radars have been erected and put into operation by a six-man crew in as little as 30 min., according to Eannirino."

It doesn't appear that work on a Man-Pack radar in Syracuse continued much further, and while this might appear to be the end of Man-Pack radar as far as Syracuse is concerned, there's more to the story:

- **1951** – Sanders Associates formed in Waltham, MA by Royden Sanders and a group of engineers and scientists from Raytheon. Their purpose was to develop and manufacture Electronic and Intelligence Systems.
- **1952** – Sanders Associates moves to Nashua, NH.
- **1986** – Sanders Associates purchased by the Lockheed Company and renamed "Sanders – A Lockheed Company."
- **1995** – Sanders merged into Lockheed-Martin Aerospace Electronic Systems.
- **1996** – Radar programs at Nashua, NH, which included **TRACKSTAR**, **LAADS** and **PSTAR**, were reassigned to Syracuse. A number of Sanders personnel, along with items then in production, documentation, tooling and inventory moved to Syracuse.
- **2000** Lockheed-Martin sold the remaining Nashua, NH programs to BAE which incorporated them into their Information and Electronic Warfare Systems group.

Of the three programs transitioned to Syracuse, their status as of 20 years ago was:

TRACKSTAR (Tracked Search and Target Acquisition Radar)

No longer in production and Syracuse effort was primarily limited to after-market support.

LAADS (Low Altitude Aircraft Detection System)

Syracuse delivered 2 systems to the Royal Thai Air Force in the 1990's, aftermarket support continued.

PSTAR (Portable Search and Target Acquisition Radar)

Operates in the L Band and is optimized to detect both fixed- and rotary-wing aircraft with a 20KM range. It was still in production for the US and foreign customers, as a lightweight, man-portable ("Man-Pack") radar with a 10-minute maximum setup time.

Book Review - "Probing the Ocean for Submarines"

Development of modern sonar (**SO**und **N**avigation **A**nd **R**anging) began in the 1920s but took on more urgency during World War II due to the German U-boat threat when German submarines torpedoed Navy-escorted convoys at a record pace. At one point during the war, ships were being sunk faster than the U.S. could replace them. Some of the ships were sunk within view of the U.S. eastern seaboard.

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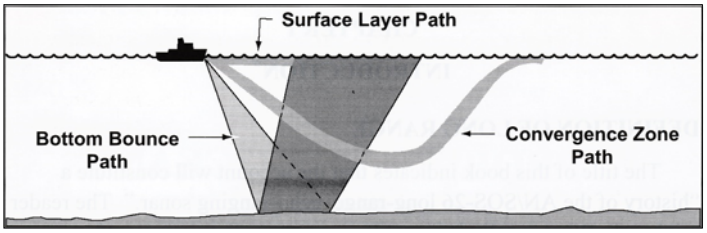
Following the war, development of **SONAR** continued, spurred on by the cold war and the realization that enemy submarines might eventually be able to launch atomic weapons. A key problem with sonar is the nature of sound propagation in the ocean. Because the velocity of sound in the ocean varies with temperature, and temperature varies with depth, this can bend the acoustic energy from a straight path and submarines at certain depths are difficult, if not impossible to detect.

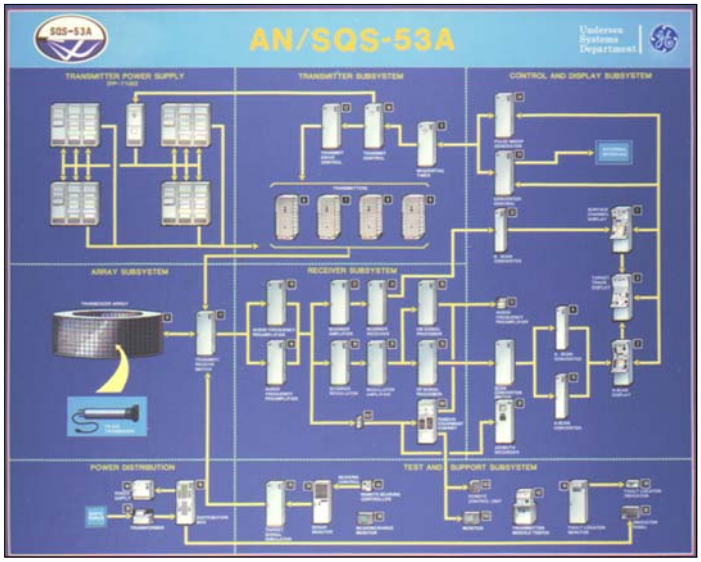


A sonar system can be designed to transmit sound along the surface of the ocean – Surface Layer Path, or "**Surface Duct**." Or it can transmit sound downward and bounce it off the bottom – **Bottom Bounce**, or it can transmit downward at an angle between Surface Duct and Bottom Bounce – **Convergence Zone**. Depending on the conditions in a particular location one path may provide better detection capability than the others.

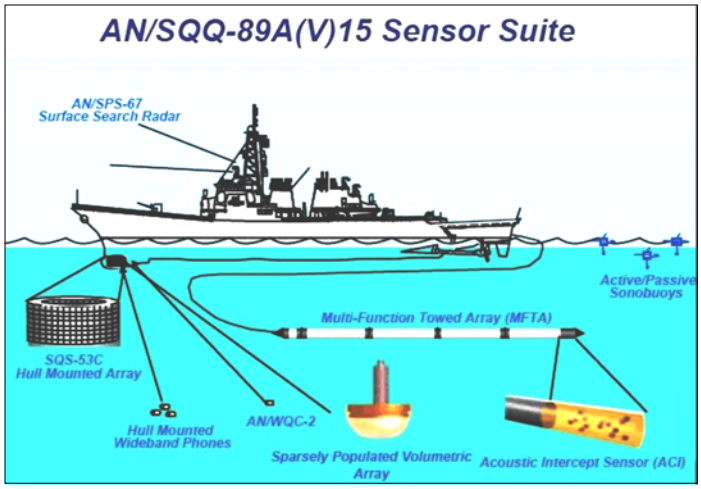
A typical post WW2 sonar system (Sangamo's QHB) operated in the surface duct mode at a frequency off 25.5 kHz and had a detection range of about 1 mile. A later system, the SQS-4 operated at 10 kHz with a detection range of about 3 miles.

In 1957 the US Navy requested bids for a new sonar system, to be designated the SQS-26, that would operate at lower frequencies, offer Surface Duct, Convergence Zone and Bottom Bounce modes, be able to transmit at higher power, offer a number of different waveforms, and provide improved signal processing and display. Development contracts were awarded to GE and EDO.

Both companies delivered developmental models and after much testing, a first production contract for the SQS-26(AX) was awarded to GE, a second production contract for the SQS-26(BX) was awarded to EDO, and eventually a series of follow-on production contracts for the SQS-26 were awarded to GE. As the Navy's requirements evolved and new technology was integrated into the system, the SQS-26 evolved into the SQS-53 – a major system with over 30 cabinets of electronics, a large hull-mounted transmit/receive array, and many lines of software.



The SQS-53A continued to evolve as some of the GE-built cabinets were replaced with standard Navy and commercial-off-the-shelf (COTS) hardware, and other acoustic sensor systems were integrated to form the AN/SQQ-89(V) Undersea Warfare/Anti-Submarine Warfare Combat System which GE produced in Syracuse for many years, and which supported a large portion of the Syracuse workforce.



All of this is captured in a paperback book "***Probing the Ocean for Submarines***" written by Thaddeus Bell of the Naval Undersea Warfare Center Division in Newport, RI in 2003. Copies of this book can still be purchased on Amazon or eBay for prices ranging from $19.00 to $45.10. This is a little surprising as the cover of the book is marked "***Distribution authorized to the Department of Defense and U.S. DoD contractors only; Administrative or Operational Use; 28 March 2003. Other requests for this document shall be referred to the Naval Sea Systems Command (PMAS 411).***" Makes you wonder whether you're breaking the law by having a copy?

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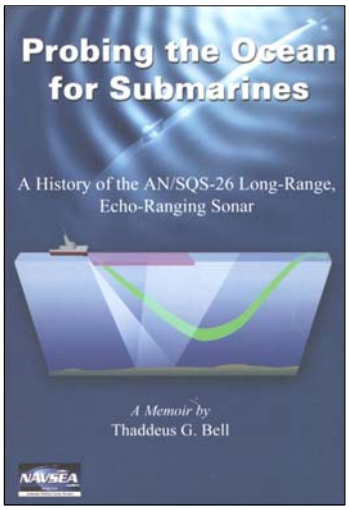

A second edition of the book was published in 2010 annotated as follows "This edition makes the historical material in the book available for use by academia, research laboratories, and fleet units interested in ASW and the principles of sonar." This version is available for $35 from Amazon and is marked **"Approved for public release; distribution is unlimited."** Sounds like you don't risk a jail term by purchasing this version……..

In both versions, contributions of the following Syracuse GE employees are acknowledged: **John Costas**, **K. Korolenko**, **Richard Sweetman**, **Theodore Thuma**, **Harry Tucker** and **Larry Waful**.

This 1977 advertisement promoted General Electric's performance on the Navy's most advanced surface ship sonar system development and production over a 20-year period.

And Now, Another GE Product - A Sonar System for Your Home.

We often think about the sonar systems produced by GE as the expensive, massive, multi-cabinet shipboard systems. But in addition to those, in the 1980 time frame GE's Housewares and Audio Business Division in Bridgeport, CT offered the Model 8250-003 "Zonar Burglar Alarm." Not sure why they picked "Zonar" instead of "Sonar", but an advertisement of the time described how "Zonar is designed to send burglars running."

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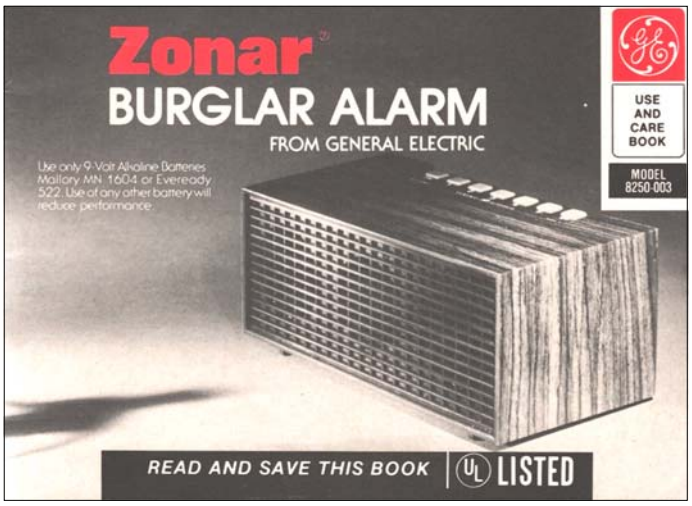
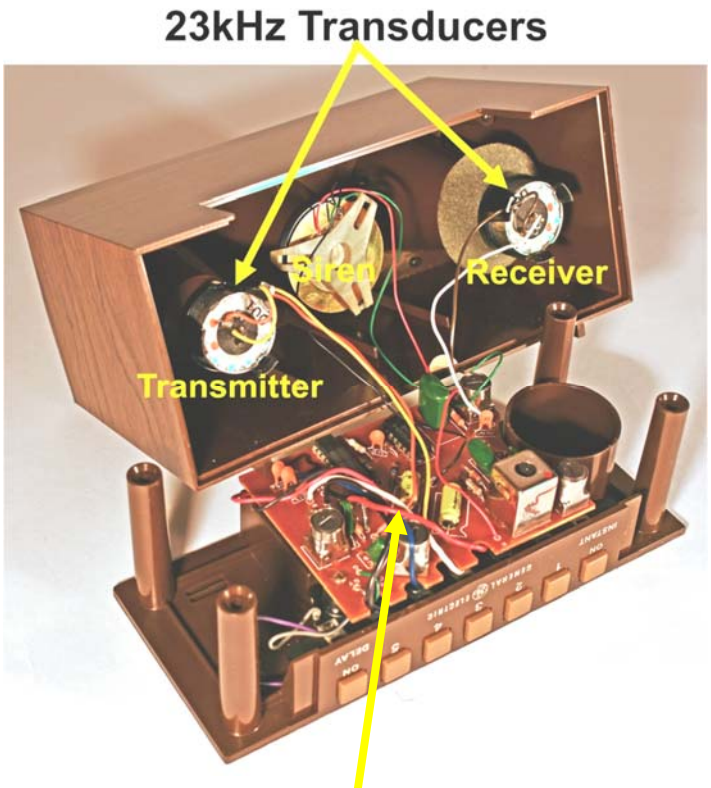
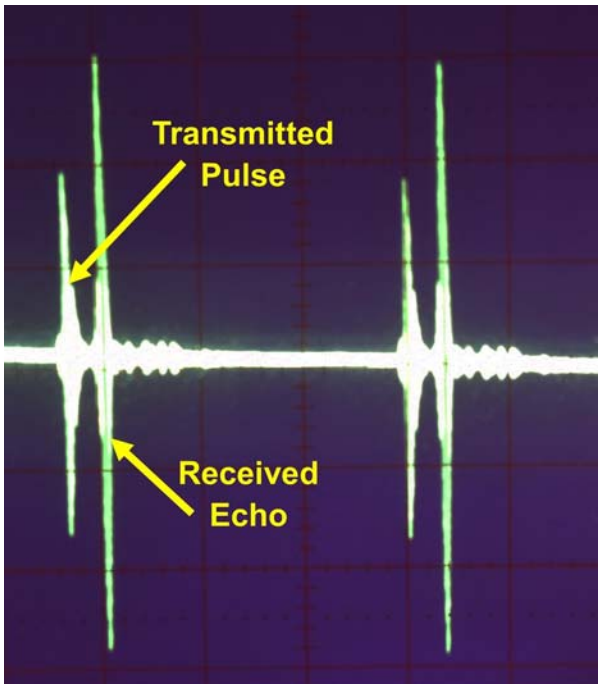
GE packed a lot into a small plastic housing 7" wide, 3" high and 4" deep. Buttons on the top allowed you to turn the unit on, and if a "burglar" was detected and the alarm sounded, you could enter your 3-digit "personal code" to silence the alarm.



Inside the small box GE packed the basic elements of a real sonar system – transmitting array, receiving array, signal processing electronics, and a display (well, actually a siren alarm in this case).

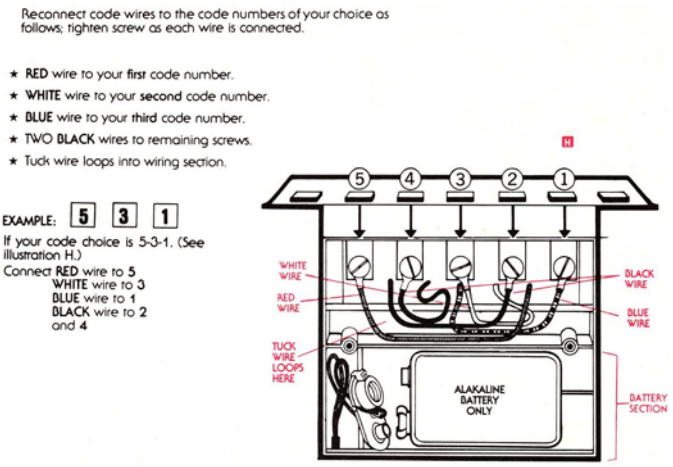


Transmitting, Receiving, Processing electronics (9V battery-operated)



The unit transmits a continuous series of short 23 kHz pulses and monitors the reflected echo If an occasional echo is missed, the unit will just give a short "beep." When a number of echos are missed, there must be a burglar in the house and the siren alarm is be triggered – hopefully scaring the burglar (or an unsuspecting member of the family).

With a burglar no longer threatening, you enter your 3-digit "personal code" to reset the unit and silence the alarm. While the unit was advertised primarily for home use, apparently it proved to be popular with travelers who could carry one on their journeys to provide additional security in their hotel or motel room.



The product appeared to be popular as both used and new-in-the-box units are common on eBay. A recent check of eBay showed a total of 15 listings for these units, at prices (including postage) varying from $12.87 to $44.99. So if you're inclined to experiment with one of these "mini sonar systems", you can do it inexpensively.

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GE Cancels CEO Stock Award, Cites Earnings Performance

General Electric Co. said it canceled stock awards for Chief Executive Officer Larry Culp originally valued at $20 million, saying the company had failed to reach minimum performance thresholds necessary for the executive to take full title to the shares.

The move, made by the board last month, wiped out $5 million of the $8.2 million in total compensation the company reported for Mr. Culp for 2022, as well as a tranche of shares originally valued at $15 million when it was awarded in 2020. The company also canceled equity awards for the same years for other top executives.

Had the company not canceled the stock awards, the two batches of shares for Mr. Culp would have been valued at about $14.4 million at the end of 2022. GE shares fell a little over 11% during the year and are up about 8.6% over the past five years. They closed Thursday at $91.97, up from $65.38 on Dec. 30.

Mr. Culp still could receive a tranche of performance linked shares awarded in 2020 in connection with a two-year extension of his employment agreement into 2024.

GE valued those shares at about $146 million at the end of 2022, up from $57 million originally, on the assumption that Mr. Culp receives the maximum number of shares possible under the terms of the award. So far, he has earned about a third less than the maximum, a company spokeswoman said. The number he ultimately receives depends on the company's highest average share price over any 30 consecutive trading days through mid-August 2024.

The pay disclosures were made in the company's annual proxy statement, filed with the Securities and Exchange Commission on Thursday.

In GE's annual proxy statement, Thomas Horton, the company's lead director and a partner at an infrastructure investment fund, lauded the company for spinning off its healthcare operations, retiring $11 billion of debt in 2022, starting new stock buybacks and meeting during the year with investors to discuss executive pay and other matters.

GE already had reduced the amount of stock Mr. Culp could receive for 2022 after shareholders voiced their objections to terms of his 2020 contract extension. Instead of a $15 million target stock award laid out under that agreement, GE

CEO Larry Culp is nearing the end of a plan to split GE into three.

said a year ago that his target would be $5 million. That is one of the awards canceled last month.

About 66% of shares voted at GE's 2022 annual meeting supported the company's "say on pay" measure, an advisory vote intended to show support or opposition to the company's executive-pay practices. In 2021, nearly 58% of shares voted against GE's executive-pay practices. Many large publicly traded companies generally receive support of 90% or higher.

The GE board's decision to cancel some of Mr. Culp's equity means the company reported a value of minus $23.8 million for his 2022 "compensation actually paid," a new measure required by the SEC for the first time this year.

The figure measures the change in the CEO's pay over the course of the year, including new cash payments and stock awards as well as gains or losses on prior equity awards.

In Mr. Culp's case, it reflects the loss of his 2022 equity awards canceled last month as well as $27.4 million in other losses on equity awards from prior years.

The 2020 leadership award that remains outstanding declined in value by about $18.6 million during 2022, while an outstanding award of shares from 2021 lost about $2.7 million in value, GE's securities filings say. Both awards are scheduled to vest, or become fully Mr. Culp's property, in 2024, if performance conditions are met.

Mr. Culp is nearing the end of a three-year plan to split General Electric into three parts.

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Early this year, it spun off its healthcare business, GE HealthCare Technologies Inc., as a separate company. It plans to do the same next year with its power-generation and renewable energy businesses, now called GE Vernova. That will leave GE Aerospace, which Mr. Culp has said he plans to run.

(Portions of the above article appeared in the Match 18-19, 2023 edition of THE WALL STREET JOURNAL)

Election of Officers

The bylaws of the Syracuse Elfun Society impose several requirements upon the organization:

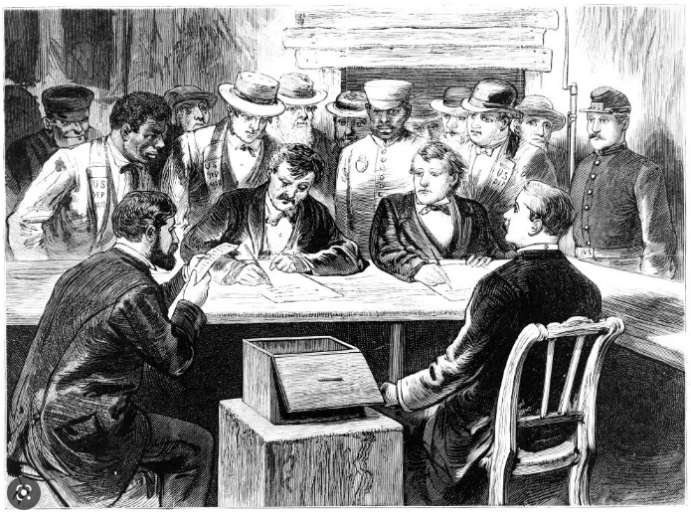
Section 6.2 Number of Directors. *The Board shall consist of not less than three (3) and not more than twenty-one (21) directors, as shall be determined from time to time by resolution of the Board. The number of directors may be increased or decreased (to no fewer than three) by amendment to these Bylaws, except that in no case may any decrease in the number of directors shorten the term of any incumbent director. The initial number of directors shall be eleven.*

Section 6.3 Election and Term. *Directors shall be elected at the annual meeting of the Members to hold office for a term of three years. To the extent practicable, the Board shall be constituted in such a way so that the term of approximately one-third of the current number of Board of Directors shall be set to expire in any one year.*

We will continue the practice, started during the "COVID Years", of electing Directors by mail-in ballots as opposed to during an annual meeting. There are 4 Directors who were elected to 3-year terms in 2020 and who are thus up for re-election.

The Board of Directors is proposing that the following individuals be re-elected to 3-year terms: Steve Auyer, Pete Scalzo, Fred Wenthen and Nick Vaccaro.

Dues-paying-members will receive a ballot for directors for the 2023-2026 term included with their dues notice. Those receiving the ballot are free to vote for all of the above, none of the above, or to propose and vote for alternate candidates.



Your officers will diligently and accurately count the votes.

Syracuse Elfun Society Board of Directors

Position	Individual	E-mail	Phone
Chairperson	Carl Chermak	CarlChermak@gmail.com	315-637-0380
Vice-Chairperson	open		
Secretary	open		
Treasurer	Joe Kinzel	jakinzel@msn.com	315-303-7347
Webmaster	Ron Panetta	ron@panman.us	315-451-4681
Communications	Steve Auyer	Steve.Auyer@gmail.com	315-451-7359
Seniors	Fred Wenthen	Fred.Wenthen@gmail.com	315 380-4227
Social Events	Cindy Chermak	Chermak@msn.com	315-637-0380
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