



IEEE Committee

Executive committee of Institute of Electrical and Electronics Engineers reviewed busy agenda on tap for coming year at session held at Officers' Club, Patrick AFB. Around conference table, seated from left, are: H. B.

Hoeper, Jack Clark and Lawrence E. Williams. Standing are Dr. H. A. Poehler, left, and Gunther Karger. (Brevard Sentinel Photo by Scotty Culp)



Outstanding

Gunther Karger, outstanding citizen and family, Mrs. Karger, and Herbie, left, and Kenny. (Brevard Sentinel Photo by Scotty Culp).

Outstanding Young American

Karger's Laurels National

By SCOTTY CULP

SATELLITE BEACH — Gunther Karger, a newcomer to the Satellite Beach area, was recently listed in the 1965 edition of Outstanding Young Men of America, selected by the United States Junior Chamber of Commerce (Jaycees). Among other honors he has recently received was an award by the Ninth National Communion Symposium as Outstanding Young Engineer for "Contribution in furthering communication systems concepts."

Karger is currently associated with Radiation, Inc., as a system engineering consultant. Previously with ITT Communication Systems and other ITT affiliates, he was responsible for the development of communication system concepts for the USAF and Department of Defense.

While with Microwave Services International as consultant to the president, he assisted electric utilities in planning telecommunication systems and performed management consulting in organizational and corporate acquisition problems, as well as being responsible for marketing functions. As division head, he was responsible for the

selection of transcontinental microwave routes.

Karger has been active in professional activities by publishing and presenting papers and participating on national panels in the field of system engineering. He has been editor of the communication technology group of the Institute of Electrical and Electronics Engineers (IEEE) since 1963.

Concurrently, he was recently elected as secretary of the Canaveral section of the IEE. Karger was a member of the New Jersey executive committee 1959-64, ending that period as chairman of the Communication Systems Group he organized in 1962. Additionally, he has assignments on other national committees.

A graduate of Louisiana State University in 1958, Karger was on active duty with the USAF as instructor in Airborne Electronics, radars and navigation systems. He was instrumental in organizing the first USAF technical course on Meteorological radar systems.

It would seem that he has little time for other activities. However, he is a writer of science fiction stories and occasionally takes his reflector teles-

cope out to view the heavens.

Born in 1933 in Lahr, Germany, Karger has extensively traveled Europe and the U.S. He now resides at 725 Rosada St., here with his wife Shirley and two sons, Herbert 7, and Kenneth 6.



Newsletter Editor

Gunther Karger, a systems engineer with Pan Am's Guided Missiles Range Division, has been named editor of communication technology Newsletter for third consecutive term.

Communications Technology Group is affiliated with Institute of Electrical and Electronics Engineers (IEEE).

He is a Fellow of British Interplanetary Society and member of the Air Force Association and Armed Forces Communication and Electronics Association.

Also, he recently was appointed to Brevard Oceanographic Study Committee.

Karger resides in Satellite Beach with his wife, Shirley, and two sons.



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JUNE 1966



Expansion Fund

Canaveral Section IEEE donated \$500 to Brevard Engineering College's Expansion Fund. Left to right: Gunther Karger, Secretary of IEEE, F. J. Clark,

Chairman, Ray A. Work, Deaff of Faculty, Brevard Engineering College, LaVergne E. Williams, and Sylvester A. DeMars.



Banquet For IEEE

LaVergne E. Williams, left, of Aerospace Corporation and recently named "outstanding Engineer of the Year" was installed chairman of Canaveral Section, Institute of Electrical and Electronics Engineers at banquet held recently at The Pines, Indian Harbour Beach. Others at head table were, left to right, Dr. Rufus G. Fellers, Director of the Southeast Region and Dean of Engineering, University of South Carolina; Dr. William G. Shepherd, President of IEEE, and vice president of University of Minnesota, guest speaker; and Gunther Karger, of Pan American, vice chairman, Canaveral Section IEEE. (Brevard Sentinel-Photo by Scotty Culp)

American Dream Come True

From Page 10

in the world, to rise above nothing and become a useful member of our great country. I love my dad. Please be proud of him with me."

an "Outstanding Jaycee of the Year." And in 1963 he received a certificate of recognition from the 9th Annual National Communications Symposium in Utica, N.Y.

In Brevard he was recently elected to the choice post as chairman of the Canaveral Section of IEEE. "I intend to make this year as successful as possible. There's one thing I'm not afraid of — hard work." Already he's managed to arrange for the fall convention of the Southeastern U.S. IEEE convention to be held in Cocoa Beach. G. Denton Clark of RCA will serve as convention chairman.

One of the Kargers' two sons, Herbie, wrote to TODAY in the recent "Father of the Year" contest about his dad. "My dad has proven that it is possible for a poor little boy, alone



THE GUNTHER KARGER FAMILY OF SATELLITE BEACH
... From left, Herbie, "Gus," Shirley and Kenny

TODAY Staff Photos by John Slack

TODAY
Salutes

The American Dream Come True

By AMY CLARK
TODAY Staff Writer

Gunther Karger of Satellite Beach has all the earmarks of the successful American man. He lives in a delightful house with his wife and two sons — is a systems engineer for Pan Am — and was a 1965 "Outstanding Jaycee of the Year."

It is only when you talk to him that you learn that on a dark night in 1939, he was slipped out of Nazi Germany by his father aboard a train loaded with 500 Jewish children bound for Sweden.

He was born of Jewish parents in Nazi Germany in 1934. Five years later when the Jews were trying desperately to escape Nazi concentration camps and certain death, little Gus was aboard the train. Alone.

"Shortly after the train arrived in Sweden my parents and grandparents were taken to concentration camps and later put to death," says Gus. He relates his fantastic childhood with little or no emotion.

Until he reached 13 he lived on a farm with a Christian family, then in a Jewish orphan-



BURNING MIDNIGHT OIL
... Gus Karger spends many evenings writing in his study at home

age and finally with a strict Jewish family in Stockholm. "As a result my religious views are liberal. I'm not a strict Jew. I believe in the 10 Commandments. I don't think it matters whether you're Jewish,

Christian or Mohammedan." When his aunt in Pensacola sent for him, he was 13 and had been through the traditional Jewish ceremony of the Bar Mitzvah which recognizes that a boy has become a man.

This is the second of a series of articles about Brevard people who have displayed unusual courage — in all its many forms.

Knowing Swedish and German, the boy-man was now determined to learn English just as well.

"When there's no way to communicate, you're forced to learn the language fast," says Karger. In the philosophy which he has developed through the years he believes "it's as easy to think big as it is to think small. After you've gone through a childhood such as mine, you've nothing more to fear. There is nothing more."

He has put his philosophy into a practical guide to success in a brief, easy-to-understand paperback book called "Your Plan to Success." His other book called "International Space Log" was compiled as a result of his affiliation with the space world in Brevard.

"I wrote the books, had them printed and I'm selling them by mail-order from home. So far I've had quite a bit of

success with them. I also write science-fiction but haven't had anything published as yet."

A self-made man — that's what his wife, Shirley, says he is. "He worked his way through high school, giving all his money to his aunt and uncle in Pensacola to pay for room and board. Then he served four years in the Air Force and afterwards completed a four-year engineering program at Louisiana State University in three years. I'm very proud of him." The Kargers have two sons, 9-year-old Herbie and 7-year-old Kenny.

Since college Karger has concentrated on his career plus working with Jaycees wherever he has lived and with the Institute of Electrical and Electronic Engineers (IEEE).

In 1965 the Dover, N.J., Jaycees were responsible for his being nationally recognized as

Continued on Next Page

12/66

Business Briefs

by **Burke Edwards**
TODAY Business Editor

New IEEE Chairman

G. Denton Clark, manager of the RCA Service Company's Missile Test Project, has been named general chairman of the Institute of Electrical and Electronic Engineers 1969 Region III Convention slated for Cocoa Beach according to Gunther Karger, chairman of the conference's steering committee.

Clark will direct the planning and conduct of the convention, which is expected to be attended by 1,000 IEEE members from throughout the southeast.

Region III embraces an IEEE membership of more than 25,000 scientists and engineers.

The convention will be held in November, 1968. Originally scheduled for Spring, 1969, it is being advanced to avoid a conflict with the Space Congress held annually in Cocoa Beach.



European Mementoes

Mr. and Mrs. Gunther Karger display a few of many souvenirs brought back from their two-week tour of Europe. This was the first trip to Europe for the Kargers since Gunther left there at the age of six. The itinerary included Germany, Sweden and Switzerland. (Brevard Sentinel Star Photo by Margaret Bartlett)

About a year ago there was a man from Cocoa Beach who wrote and published his own book. I believe The Sentinel ran a story on this but I am not sure. Is there any way I can find this man's name or get in touch with him?

T.N.

Melbourne

A paperback was written and published by Gunther Karger, "Your Plan to Success," P. O. Box 2506, Satellite Beach. Or you may be referring to Gene Fernet who wrote "Thousand Golden Horns." We have several writers in this area, it is hard to say just who you have in mind.

1/67 ISRAEL
Sentinel



GUNTHER KARGER

IEEE Elects G. Karger President

PATRICK AFB — Gunther Karger, a Pan Am systems engineer, has been elected chairman of the 1,000-member Canaveral section of the Institute of Electrical and Electronic Engineers.

Karger, whose job includes developing computerized systems for the support of Air Force Eastern Test Range communications and planning advanced communications systems, is a resident of Satellite Beach.

In addition to his new job as local IEEE head, Karger has been editor of the Institute's international newsletter, and was chairman of the committee which planned the regional IEEE convention scheduled for Cocoa Beach in November next year.

Karger was named an Outstanding Young Man of America by the U.S. Jaycees in 1965, and an Outstanding Young Engineer by the 8th National Communications Symposium in 1963.

He has served on several advance planning committees for the Air Force, Department of Defense and industry; is a Fellow of the British Interplanetary Society, member of the Brevard Industrial Council Committee on Oceanography and a member of the South Brevard Beaches Jaycees.

Karger was graduated from Louisiana State University in 1958 with a BSEE degree.

Monday, May 23, 1966



Named Editor

Gunther Karger, a systems engineer with Pan Am's Guided Missiles Range Division, has been named editor of the Communications Technology Newsletter for the third consecutive term. The Communications Technology Group is affiliated with the Institute of Electrical and Electronics Engineers (IEEE). Karger has held various editorial and management posts with the IEEE since 1959 and is the secretary of the Canaveral Section.

Business Briefs

Joins Boeing

Gunther Karger, Canaveral chapter chairman of the Institute of Electrical and Electronics Engineers, has joined the Boeing Company, Cocoa Beach. A senior member of the Institute, he has had previous management and technical staff assignments in the fields of telecommunications, information and management systems. He serves as the Florida Representative on the Institute-wide Membership Committee and is the U.S. Delegate to the International Conference on Microelectronics which will be held in Sydney, Australia during 1970.

Karger is a member of the Jaycees, a Director of the Cape Kennedy Young Republican Club and Fellow of the British Interplanetary Society.



Chairman

Gunther Karger, a Pan Am systems engineer, has been elected chairman of the 1,000-member Canaveral section of the Institute of Electrical and Electronic Engineers. Karger is resident of Satellite Beach.

Local Man Heads IEEE



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Saturday, May 13, 1967

IEEE Election Has Society Agog Over Candidates

By **CHARLIE JEAN**
Staff Writer

INDIAN HARBOUR BEACH — A 1,000-member technical society is abuzz over its scheduled election of new officers Wednesday.

The fuss involves the campaign for chairman of the Canaveral section of

the Institute of Electrical and Electronic Engineers.

GUNTHER KARGER of Pan American was selected by the society's nominating committee. A petition signed by "at least 10 voting members" named Dr. Horst Poehler, another Pan Am employe.

The publication in several papers this week of press release emphasizing Dr. Poehler's candidacy struck sparks. The release, principally a lengthy biography of Poehler, made no mention of his nominating committee opponent.

Lavergne E. Williams, outgoing

chairman, was visibly angered. Karger was upset. It was hinted that the Poehler releases were not in keeping with the society's by-laws.

POEHLER SAID the releases were written by George White of Satellite Beach "without my knowing too much about it." He said he

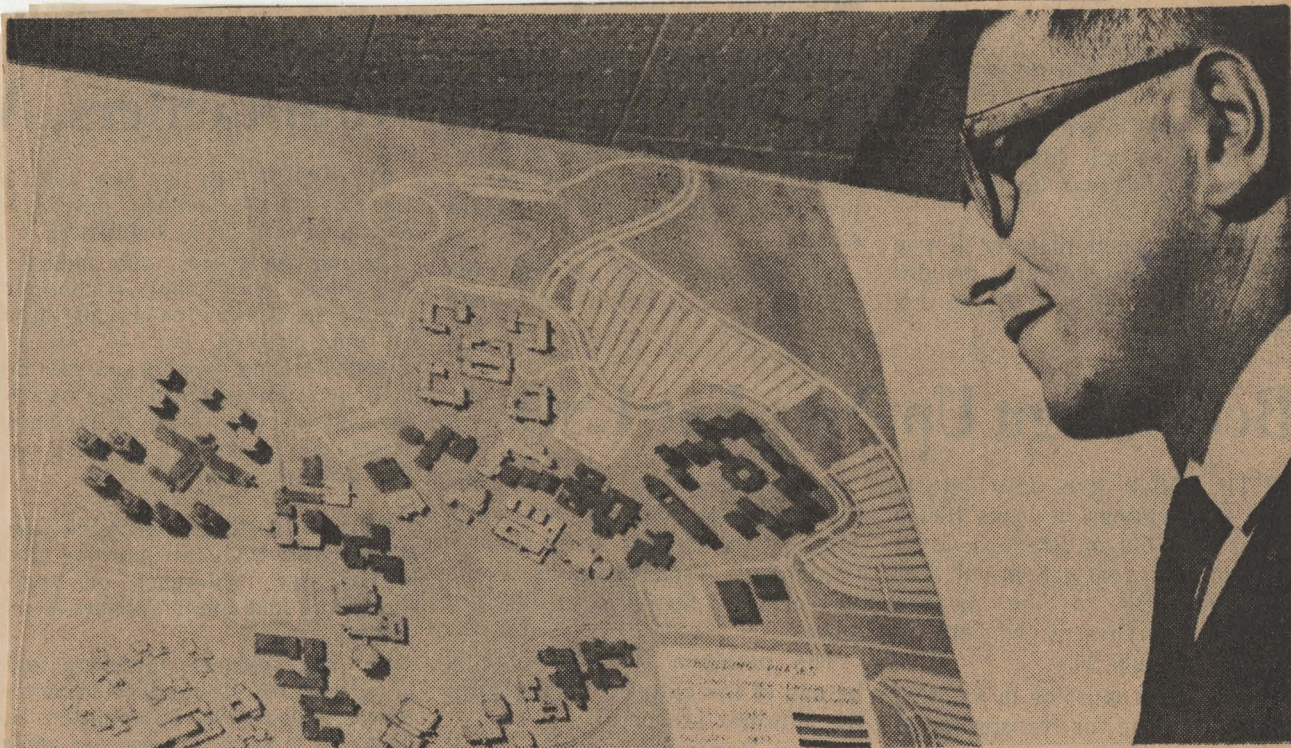
regretted two newspaper presentations which made it appear he was the only candidate.

Karger, a systems engineer, is responsible for the development of computerized systems for the support of range communications.

He was named outstanding young

engineer by the eighth national communications symposium in 1963 and selected as an "outstanding young man of America" by the U.S. Jaycees in 1962.

He is vice chairman of the Canaveral section and the year before served as secretary.



New IEEE Chairman

Gunther Karger, installed Friday night as chairman of Canaveral Section of Institute of Electrical and Electronics Engineers, examines plans for new Florida Technological University. Speaker for Ramada Inn installation banquet was Dr. Charles Millican, FTU president. Other officers

installed included Clifford Mattox, vice chairman; Richard Snelling, secretary, and Walter Hayne, treasurer. Karger succeeds LaVergne Williams in IEEE slot. (Brevard Sentinel Staff Photo by Floyd Gay)

Business Briefs

Australian Conference

Planning for the International Microelectronics Conference to be held in Sydney, Australia during 1969 has been concluded with the aid of a local engineer.

Gunther Karger, chairman of the Canaveral Section, Institute of Electrical and Electronics Engineers, recently returned from "down under" where he met with Prof. Richard Huey, president of the Australian Institution of Radio and Electronics Engineers, executive secretary Kenneth G. Knight and other key Australian industry leaders and discussed the IEEE role in the event.

The conference will bring to the forefront recent advances and technological trends in the rapidly evolving microelectronics field. A high degree of interest has developed in Australia and it is anticipated that leaders from many countries will attend to explore the expanding Australian market, Karger reported.

Additional information concerning the conference, Australian Industry or other related matters can be obtained by contacting Karger at 773-1894 or 784-3650.

IEEE Chairman Sees Year 2000's Communications

Thursday, May 25, 1967

Page 18 The Daily Times



GUNTHER KARGER

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By Gunther Karger, IEEE

The world is quickly shrinking due to increasingly rapid and economical communications and transportation facilities. These two elements are related, because as the speed and employment of transportation increases, action and reaction time decreases which causes a greater need for faster and more reliable communications.

The computer is having a profound effect upon the world of communications. Date processing is rapidly becoming routine in international, national, and local activities. Date processing facilities are always hungry for input data and are anxious to provide the user with processed information.

Frequently, the data processing facility may collect data from many sources and send results to widely distributed users. All this is based on a continuation of rapidly increasing requirements from communication services in terms of traffic capacity, speed, reliability, and operational flexibility.

Let us now look at some typical communication services which may be expected by the year 2000.

THE INTERNATIONAL Agreement of 1985 was a historic milestone in the broadcasting industry. The agreement set up the International Broadcasting Authority (IBA) whose function it is to create and operate all public broadcasting services on Earth, as well as on the Moon, Mars, and other space stations as they are completed. The IBA has had a profound effect on the broadcasting economy of all nations.

Each subscriber, regardless of geographic location, is now able to select from the IBA Network a wide variety of television programs in his native language, tune in on a weather channel continuously showing local, regional, and global weather and news.

These network programs are compiled by the IBA Central Division from enormous amounts of inputs coordinated and processed by computer. The programs are transmitted to synchronous broadcasting satellite stations, which relay the signals directly to the subscribers.

EACH SUBSCRIBER'S set is preset to receive the proper set of channel selections depending upon the language and region. The local broadcasting stations are served by regional IBA centers through appropriate channel assignments.

The subscriber pays according to a fee schedule based on the type of service. Selection may be made from local service through international coverage including continuous background high fidelity music with video. There is a fee for installing the set and a monthly charge depending on the number of remote sets in a given facility (residence, office, etc.) and scope of service.

This broadcast concept is similar to the telephone service of 1965. Broadcasting has come a long way and has done a great deal to knit the earthly elements together.

The telephone pole and connecting lines are a thing of the past. Subscriber services to homes are wireless and include videophone capabilities.

An individual subscriber is issued a code which is assigned to home for life or until permanent disconnection of service. He may be reached regardless of location by addressing the telephone network to his code.

For example: You are about to leave your house but wish to be reached while in transit and while at some other fixed location. If your destination is within the local exchange area, you merely take along your subscriber remote signalling unit, a device of pocket watch size

which signals you to call the local central office. By addressing your own code plus a prefix, which causes a memory unit at the local central office to provide the information, you will be given the calling party's address code. If you have a subscriber set in your car, plane, or boat, you will be reached immediately as it has the same code as your prime subscriber set.

ANOTHER possibility is that you are leaving the local exchange area. Each local exchange area has a unique address code. You may inform the exchange serving your destination area that you are expected at a given time. All calls will then be routed to that exchange. While there, you will be notified via your signalling unit that a call has come in. If you are in route, the caller's address code number will be memorized. By calling your own code number, plus a given prefix, upon arrival you will be notified of calls received and the address code numbers of the callers.

Upon leaving the visited area for another, or returning home, it is only necessary to inform the local exchange. You may also inform the "Transit," an exchange serving your particular mode of transportation, and thus be notified of incoming calls during transit in public conveyances such as the rapid rails, aircraft, ships, and the pneumotubes.

Naturally, the costs of these private communications services increase with flexibility and scope. Accordingly, not all subscribers have or need most of these. But they are available for a price.

The following are examples of services available. The Secretary of State has at his continuous disposal, wherever he may be at any time, positive and assured private videophone service with a capability of written message confirmation. This service is connected to a special independent global and space net-

work, which is reserved for communications traffic of maximum sensitivity. Secure common carrier facilities also provide reliable global service for information of lower sensitivity.

THE PRESIDENT of a corporation has similar communication facilities which provide him instantaneous access to desired information whether it be a strike in Teheran or a shipping problem in Hawaii. Common carrier communications provide him with the transmission facilities and his corporation is responsible for specialized terminal subsystems, or if the need is sufficiently general, the entire service can be provided by the common carrier.

State and local governments have similar services, but operate on more localized networks. However, they have access to local satellite communications stations.

Each hospital has a well instrumented diagnostic examining room. The patient is connected to a group of sensors that transmit the diagnostic data to a remotely located central data processing facility, which serves a number of hospitals and diagnostic centers. The data are analyzed, processed, and the results compared with data or information stored in memory banks. The results are transmitted back to the patient's location where the doctor receives and interprets the information and prescribes accordingly.

Each patient's medical history is on file at the data processing center in a memory bank. The bank can be searched at any time for a patient, wherever he may be, thus reducing the possibility of incorrect treatments, should the patient require medical treatment while away from home. Each person is assigned a basic code number for life, which when used together with the proper suffix, will search the patient's medical, social security, historical, and other memory files.

INFORMATION RETRIEVAL systems have matured. A number of information centers have been established and authorized personnel may use these centers through the common carrier communication services to obtain information on many subjects. Information processing facilities at the centers are capable of providing outputs in a variety of formats as selected by the subscriber. The personal files of engineering and scientific personnel are no longer cluttered with all manner of reference material. Instead they contain procedural information providing acquisition capability at the time of need. Each requestor must know his need, that is, his problem definition must be adequate to obtain useful data from the information retrieval system. Problem definition is, after all, the most important function of all tasks in any job or profession.

Common carrier communication services are closely tied to the specialized governmental and business needs which are discussed in the following paragraph.

The day of independently operated subsystems has long since gone by the wayside. It became too expensive and inefficient to operate communication services on such a basis. As a result of many painstaking years of evolution, the Federal Government now has one communication service which satisfies current information exchange needs.

THE OPERATIONAL concept for providing communication service for federal and state governments as well as large decentralized industries and business is simple. The communications common carrier provides the long haul transmission network (pipes) to be the user terminal subsystems which may be data processing

centers, switches, store/forward centers, television, and other displays. Because of specialized communication needs at remote and sparsely populated subscriber locations, a user operated subsystem becomes feasible. Space communications stations are also widely used.

The success of this operational concept was made possible through the standardization of techniques, methods, and equipment together with a gradual but planned evolution.

This capsule account of communication services is given, based on knowledge of past and present technologies, and logical projections of future activity.

If, as a reader, you question the validity of the projections presented, please remember that the author is prognosticating. However, some of these innovations could come sooner than you think.

Whether an idea is technically feasible is not the only criterion for acceptability. It must also be economically and politically acceptable. These factors may provide the greater challenge of the future.