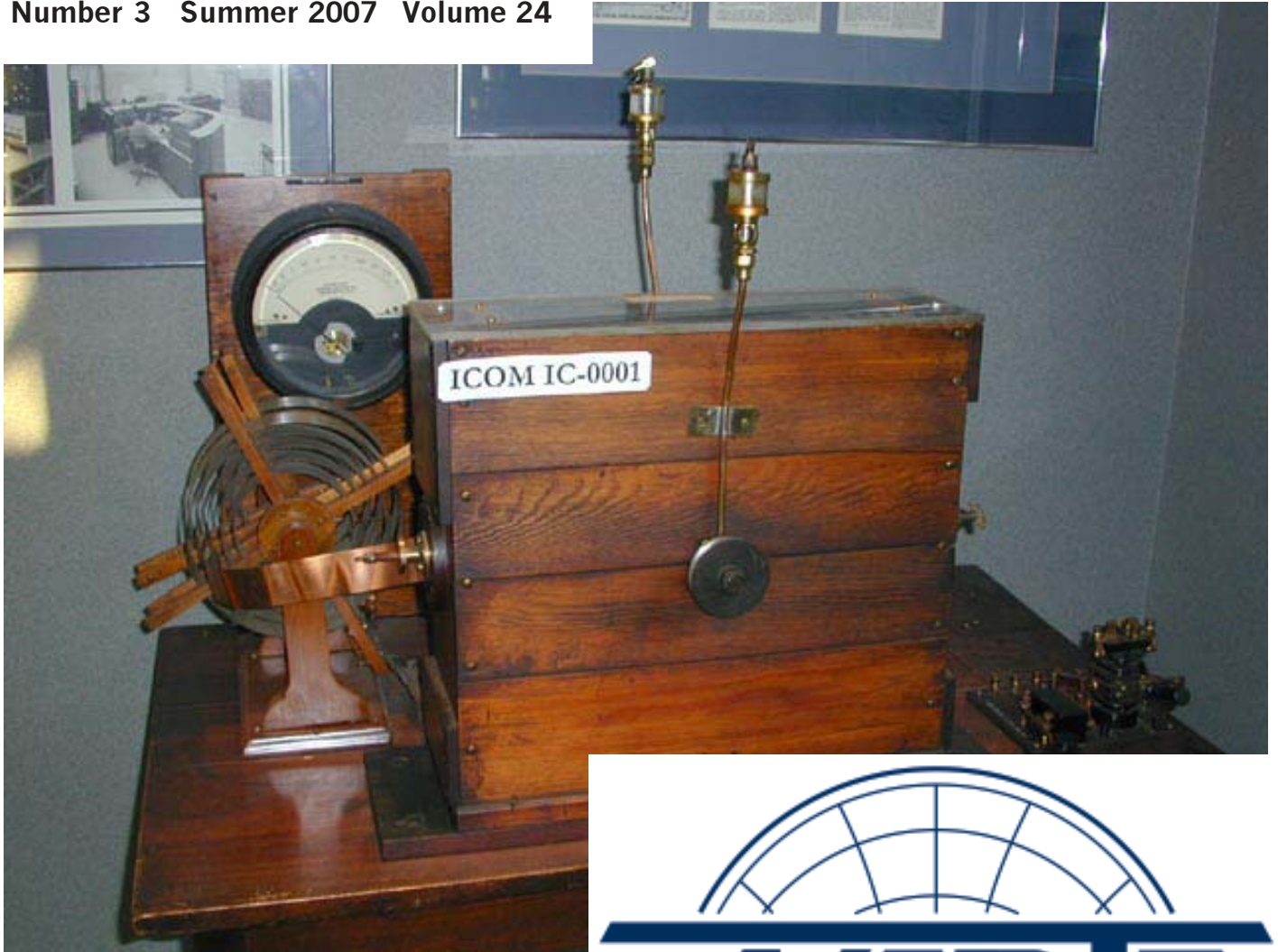


# *iNARTE* *News*

Number 3 Summer 2007 Volume 24





**COVER** The photo is of a commercial rotary spark gap transmitter circa 1920. The photo is copyright 2007 by the ARRL and is used with their permission.

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# Headquarters Highlights

**SUMMER 2007**

by **Brian F. Lawrence, Executive Director**

## Board of Directors Meeting

The Board of Directors meeting was held at NARTE Headquarters on Saturday, **May 5th**. This meeting boasted a 100% attendance and we welcomed two new members of the board: **Russ Carstensen**, our previous executive director, and **Mike Violette**, the president of Washington Laboratories Ltd., a testing and engineering firm.

This meeting debated a five-year business plan presented by **Brian Lawrence** that had both short-term and longer-term strategies and objectives. In the short term, the plan calls for updating and expanding our existing certification programs, with the main expansion coming from international marketing of NARTE to companies and institutes with an interest in training and validation of credentials for their trained applicants.

The program most in need of an upgrade is our Telecommunications Certification, and efforts have begun to solicit input from industry as to their current needs.

In the longer term, the plan calls for the development of new certification programs for emerging technologies. A number of opportunities were identified:

- RFID
- Homeland Security
- Dynamic Spectrum Acquisition
- Wireless Engineering

The Board volunteered to form three committees to assist in the implementation of the business plan:

Telecommunications Advisory:  
**Garry Gorr, Mike Hayden, Lawrence Behr**

EMC Advisory:  
**Kimball Williams, Mike Hayden, Russ Carstensen**

New Programs Advisory:  
**Kimball Williams, Mike Hayden, Dave Case, Stephen Berger**

Brian Lawrence stressed the importance of NARTE becoming better recognized as an international association. Although we have certified engineers and technicians in 26 different countries, we are still generally regarded as a U.S. association with programs directed at U.S. requirements and standards. The board agreed to a restructuring of the classic certification examination format in that a two-part examination should concentrate on basic science and technology, common to all regions, for Part 1. Part 2 should contain questions relative to the applicable practices and standards of the person's country.

To assist in the recognition of NARTE as a truly global service provider, the Board also voted in favor of an identity change to a new registered name. In the future we will be known as **iNARTE** – International Association for Radio, Telecommunications and Electromagnetics.



It was with regret that the board accepted the resignation of Director **John Christensen**. John had provided invaluable service to NARTE for many years and his contributions will be greatly missed.



John J. Christensen



## IEEE EMC 2007 in Hawaii

To mark the 50th anniversary of the IEEE EMC Symposium in 2007, this EMC Society annual event was held in Honolulu, Hawaii, from **July 8th to 14th**. iNARTE supported this event and as usual we held an iNARTE certification examination for EMC and ESD Engineers and Technicians at the end of the conference programs.

EMC 2007 also featured the Global EMC University, a series of tutorials conducted by world renowned experts. The iNARTE workshop, which offers information and instruction to prospective examination candidates, was a part of the first day's Global University event, "An Introduction to the Fundamentals of EMC," on Sunday, **July 8th**. The Global University tutorials continued until Thursday, **July 12th**, and the iNARTE Certification examinations were held on Saturday, **July 14th**. The day before that, Friday, **July 13th**, featured an island tour for all attendees. Alternatively, iNARTE some examination candidates passed up the tour and spent the day revising for the task ahead.

iNARTE hoped that this schedule would encourage all those attending the Global University to also take this opportunity to achieve certification of their engineering knowledge and skills.

A full listing of the EMC 2007 workshops and the Global University courses will be published in the near future on the event website, <http://www.emc2007.org>

## 29th Annual EOS/ESD Symposium and Exhibition

This year the EOS/ESD event will be held from **September 16th to 21st** at the Disneyland Hotel in Anaheim, California. The ESD Association has extended an invitation to iNARTE to exhibit during the event and to hold our iNARTE certification examinations there on Friday, **September 21st**.

The ESD Association runs their own focused training programs throughout the year and offer their own certification tests for ESD Project Managers and Designers. These tests will be held on the same day, Friday, **September 21st**. As a result, all attendees and association members will have the option to take tests for the ESD Association certification or for the independent iNARTE certification. It is our strong recommendation that anyone interested in developing their professional standing in this industry give serious consideration to obtaining certification by both the ESD Association and iNARTE. There are clear benefits to both, with iNARTE offering the program that is internationally recognized and administered in accordance with the ISO/IEC 17024 guidelines.

## The 2007 IEEE Symposium on Product Compliance Engineering

The IEEE Product Safety Engineering Society, with whom iNARTE has a formal Memorandum of Agreement for mutual support and co-operation, sponsors this event. The symposium is set for

**October 22nd and 23rd** at the Radisson Hotel and Conference Center in Longmont (near Denver), Colorado.

iNARTE will be present at this event with a booth in the exhibition area. We will also hold a Certification Preparation Workshop on Monday, **October 22nd** and a full Certification Examination on Wednesday, **October 24th**.

applicant for iNARTE certification in any discipline may attend. iNARTE can arrange to have available examination papers for both engineers and technicians in any field that we support at either location.

## iNARTE Examination Sessions For 2007

iNARTE is able to provide new examination papers every 90 days, if required, and we can schedule examination sessions at one of our authorized test centers almost upon demand. However, we do encourage all certification applicants for any discipline to attend one of our regular examination sessions, such as those that we link to a symposium or convention.


One of our more popular sessions in recent years has been linked to the IEEE EMC Symposium, which changes location each year. This year to celebrate its 50th anniversary, the IEEE EMC Society Symposium was held in Hawaii. We realized that this might present travel difficulties for many certification applicants. However, as can be seen on the previous page, iNARTE will hold examinations on **September 21st** at the Disneyland Hotel in Anaheim, and again on **October 24th** at the Radisson Hotel in Longmont, Colorado. These exams are linked to ESD and Product Safety Engineering certification, but any

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## iNARTE Expands Its Influence in Asia

As part of **iNARTE's** five-year business plan, the strategy of expanding our existing certification programs was welcomed by the Board of Directors, many of whom have experienced a business upsurge coming from the international markets and have also made valuable contacts in these markets. Some of the better opportunities were considered to be found in China, India, Taiwan and Korea.

Encouraged by the Board's enthusiasm for Asian opportunities, and as a result of a number of direct contacts already received from Asia, Brian Lawrence recently completed a visit to China where he was able to attend the Beijing EMC 2007 Symposium. At this symposium contact was made with interested partners in both China and Korea.

As a result of meetings and discussions during this visit, **iNARTE** has received applications from the following institutes who wish to provide their services as an **iNARTE** Authorized Test Center:

Southeastern University, Nanjing (SEU)  
 Beijing Municipal Labour Protection Institute (BMLPI)  
 Beijing HJH Science and Technology Company Ltd. (BHJH)  
 The EMC Center, Korea Radio Awareness Promotion Association (RAPA)

Of the above four parties, SEU, BHJH and RAPA have all provided copies of their training programs to **iNARTE** with the result that we will issue Certificates to each as Approved **iNARTE** Training Centers.

SEU is in the process of building a vast new campus adjacent to the Nanjing International Airport. The campus will include residential centers for students and guests to use. This will enable engineers and technicians from the larger surrounding areas to stay at the university for several days while they train, prepare and finally take the **iNARTE** EMC Certification Examination. SEU has volunteered to take responsibility for the registration of all applicants, the collection of fees and the processing of

documentation between the applicants and **iNARTE's** offices. It is hoped that the first candidates will complete their **iNARTE** Examination during October or November 2007.

Dr. Huang, the president and owner of BHJH is a NARTE Certified ESD Engineer. His company provides speciality test equipment, advice and training to both companies and individuals in the field of ESD. BHJH operates an ESD Center as part of the BMLPI complex (an institute similar to OSHA). BHJH has provided their ESD training materials to **iNARTE** and they will be proctoring ESD examinations using the BMLPI facilities in Beijing. It is the intention of BHJH to find other test venues that meet **iNARTE's** requirements in at least two other technology centers in Shanghai and Guangzhou. BHJH is scheduling their first **iNARTE** training and tests for October 2007.

The EMC Center at RAPA in Korea already offers very extensive EMC Training Courses to individuals and companies throughout Korea. The individuals targeted for training match the target group for **iNARTE** Certification in that the goal of RAPA is the continuing professional development of experienced EMC Engineers. RAPA has provided evidence enabling them to be an Authorized Test Center, and **iNARTE** has now had the opportunity to study their training materials and will certify them as an approved training center for EMC. In the future RAPA will offer a four- or five-day program to all interested individuals which will include a three- to four-day program of training and examination preparation followed on the fifth day by **iNARTE** Certification Examinations. Once again the schedule developed by RAPA hopes to see the first certification applicants taking EMC Examinations before the end of 2007.

In July, Brian visited Singapore for meetings with:

EEM Advancement Centre Pte. Ltd.  
 Nanyang Polytechnic  
 Nanyang Technical University  
 Institute for High Power Computing

All the above contacts have well-developed EMC training programs already in place and are interested in attracting applicants for training and certification from Singapore and the surrounding countries.



## **iNARTE is Born**

Adaptability is essential and NARTE is on the move. As our international membership grows and the focus for many of the NARTE-certified disciplines follows the migration of global corporations, so NARTE must serve this changing community.

In 2007 iNARTE, International Association for Radio, Telecommunications and Electromagnetics is born.

iNARTE will develop specific certification criteria tailored for applicants from different global regions, while maintaining consistent levels of skill, experience and integrity across all regions.

iNARTE Certified Engineers and Technicians of the future will find their qualifications to be more marketable within the global community. It will also be possible for applicants considering secondment contracts overseas to be certified to the standards and practices of other regions.

## Meet the New iNARTE Directors

### Richard Georgerian

Richard Georgerian, compliance engineer, is presently working at NewsFlex Ltd. in Colorado. He graduated from Northeastern University in Boston, Massachusetts, in 1981.

Since 1985, Richard has continued to be in both safety and EMC compliance testing. He provided company in-house training for product safety compliance in Mexico, India and Romania. The majority of safety and EMC testing has been done on computer printers (table top and floor standing), tape drive library systems telecommunications equipment and consumer products.



Richard started in IEEE as a student member in 1980, moved up to Member Grade in 1982 and became a Senior Member in 2001. Starting in 1994, he became more active within the IEEE. In that year, he became the chapter chair of the local product safety chapter and has held that post since that time. From 1998 onward, Richard held positions as secretary, vice chair and chair of the EMC Society's Technical Committee 8 (TC-8, Product Safety as it Relates to EMC). He was involved in the 1998 IEEE EMC Denver Symposium as an active volunteer on the steering committee and recently was arrangements vice chair of the 2007 IEEE International Symposium on EMC. Richard's involvement in conferences has grown since 1998. In 2004, he was co-chair of the 2004 IEEE Product Safety Engineering Society (PSES) Symposium in Santa Clara, California; in 2005, chair of the 2005 IEEE PSES Symposium, Schaumburg, Illinois; co-chair of the 2006 IEEE PSES Symposium held in Irvine, California, and presently the chair of the 2007 IEEE PSES Symposium to be held in Longmont, Colorado. Additionally, since 2004, Richard has been

on the Board of Directors of the IEEE PSE Society, and presently is the vice president of conferences for the IEEE PSE Society. In 2003, Richard became a NARTE-certified product safety engineer (PS NCE) and has remained a Product Safety NCE in good standing since that time.

He also has co-authored and presented three technical papers at the 2000, 2001 and 2003 IEEE EMC Symposia and presented technical papers at the 2000 and 2001 regional EMC Symposia in Denver, Colorado.

Richard resides in Longmont, Colorado, with his family.

### Harold Kramer, WJ1B

Harold Kramer of Cheshire, Connecticut, joined the ARRL as chief operating officer in February 2005.

Harold was the vice president for business development and education at Connecticut Public Broadcasting Inc. in Hartford. He holds an A.A.S. degree in electronic technology from The University of Hartford and a B.A. in English and M.A. in education from the University of Connecticut. On the amateur radio side he is a lifelong ham with his principal focus on emergency communications, an ARRL Life Member and the former Amateur Radio Emergency Coordinator for Cheshire, Connecticut. His FCC-assigned call sign is WJ1B. He is also an adjunct faculty member at the University of Hartford where he teaches an introductory course in electricity and electronics.



Harold lives in Cheshire with his wife, Karen. He has two grown daughters and is also an active cyclist.

# iNARTE Administrative Page

## OFFICERS, DIRECTORS, PRINCIPAL STAFF and KEY POINTS OF CONTACT

### OFFICERS

**H. Stephen Berger, NCE**  
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**Michael W. Hayden, NCE**  
VICE PRESIDENT (2007)  
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**Garry R. Gorr, NCE**  
2nd VICE PRESIDENT (2007)  
Libertyville, Illinois  
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**Dave Case, NCE**  
DIRECTOR (2007)  
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**Richard Georgerian, NCE**  
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**Harold Kramer**  
DIRECTOR (2007)  
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WJ1B

**Mike Violette**  
DIRECTOR (2007)  
Gathersburg, MD

**Kimball Williams, NCE**  
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President (2007)



Michael W. Hayden  
Vice President (2007)



Garry R. Gorr, 2nd  
Vice President (2007)

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