A Global Meeting for a Global Society

International Companies Make RSNA Technical Exhibits Comprehensive

By Michael Hart

Many years ago, the U.S. Department of Commerce declared the RSNA annual meeting an official international trade fair. However, anybody who strolls its exhibit hall aisles this week or sits in on one of the hundreds of conference sessions, knows that’s practically an understatement—the growth of the international component of the meeting has paralleled that of medicine itself as RSNA worked toward its centennial gathering.

This year, attendees and exhibiting companies from more than 130 countries will visit McCormick Place, representing nearly 40 percent of the total attendance. The largest foreign contingents will likely come as little surprise to many: Last year, France had the largest number of attendees from outside North America, followed by Japan, Germany, Brazil and the United Kingdom.

But the wide range of other countries that send radiology professionals to Chicago every November may surprise some. That list includes countries like Afghanistan, Nepal and Zimbabwe.

"Over the years, RSNA has seen an absolute burgeon of international participation, not only by international attendees, but by international exhibitors as well," said Dana Smetherman, M.D., chair of the RSNA Technical Exhibits Committee.

In fact, this year, there will be six country pavilions in which every exhibitor in the group is from an individual country: Korea, Canada (specifically, the province of Ontario), Germany, France, China and Japan. “It’s sort of like the world’s fair idea,” Dr. Smetherman said.

There are good reasons for the international presence that makes the RSNA annual meeting the most important place in the world for the radiology profession this week. For one, Dr. Smetherman said, “It was never just an American meeting. Our roots have always been as an international organization.”

Along with that is the fact that, to a greater extent than most medical specialties, radiology is international in nature, Dr. Smetherman added. “So many of the vendors who come to RSNA are international companies that do business in many countries,” she said.

And part of the reason for that is the intense focus on technology that is inherent with radiology. “You have to think of who your audience is and why that would be,” Dr. Smetherman said. “It’s because of our heritage and because of the kind of specialty that we are.”

The international presence at the RSNA annual meeting is also a byproduct of the attention the association itself gives to professionals in other countries by way of several important programs:

- The Derek Harwood-Nash International Fellowship program, which brings promising international scholars to North American institutions to study each year.
- The Introduction to Research for International Young Academics program, which encourages young radiologists from outside North America to pursue careers in academic radiology.
- The RSNA/AUR/APDR/SCARD Education Research Development Grant program, which provides research opportunities to individuals throughout the world who are looking to advance radiology education.
- The International Visiting Professor Program, which sponsors small teams of visiting professors to lecture at national or regional radiology meetings in developing nations.
- International Radiology Outreach Resources website, which encourages participation in international education and outreach efforts by RSNA members, subspecialty societies and medical and relief agencies.

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Located in RSNA Services, Lakeside Center
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**Touch Panels**

Intrasense is pleased to announce the enrichment of the oncology modules on its Myrian® software platform for image-based diagnostics and follow-up workflow solutions. Clinical applications such as Myrian XP-Breast and Myrian XP-Prostate now offer perfusion quantitative models and powerful structured reporting capabilities such as automatic generation of BI-RADS and PI-RADS. This cutting-edge technology provides automation and consistent results between users, generating accurate findings and a faster workflow and time savings experience, while following the guidelines from scientific societies. These solutions integrate with health information systems and reports and enhance inter- and intradepartmental communications.

**DR Systems, Inc.**

** Booth 6113 **

**Unified Reading and Reporting**

DR Systems will demonstrate a new way for radiologists to perform reading and reporting on a single 8 mega pixel monitor, all within its Unity enterprise imaging solution. The ergonomic and efficiency benefits of this solution are tremendous and it greatly simplifies the setup for home or remote reading. This same Unity enterprise imaging solution can be used for radiology, cardiology and pathology, allowing all imaging ‘ologies to be unified throughout an enterprise. In addition, DR Systems will demonstrate other upcoming Unity features, including image fusion, 3D processing and tomosynthesis. DR Systems provides a unified solution that encompasses the entire medical imaging enterprise, including RIS, PACS, cardiovascular imaging and information systems, breast imaging, MQSA Tracking, image exchange, Meaningful Use, patient engagement and more. DR Systems has been voted Best in KLAS PACS year after year by its customers.

**ATLAIM Corporation**

**Booth 3773**

**Versatile Flat-panel Detector**

ATLAIM introduces the first cassette-sized, 17” x 17”, ultra-light, wired and wireless, ultra heavy duty flat-panel detector with all-day battery life. ATLAIM creates not just new diagnostic radiology (DR) technology, but a new category of wireless DR with the ATL A9. This new technology removes all the impracticalities of wireless DR. Its many features—long battery time (more than 12 hours of continuous use with one charge), light weight (5 pounds for a 17” x 17” detector), cassette size, AED, ACC, high speed wireless data transmission and 300-pound weight bearing capability—make it as easy to use and install as CR with all of the upside of DR. A simple HDMI cable instantly transforms the panel from wireless to tethered. For the first time, the ATL A9 offers optional multi-frame (6-24 fps) capability in the same thin, durable package.

**IMAGE Information Systems Europe Ltd.**

**Booth 2565**

**Relevant Prior Studies Management**

IMAGE Information Systems showcases an intelligent radiology reading station that automatically presents relevant prior studies for the same patient across all modalities. While most PACS compare headers describing anatomical areas in the study description, iQ-VIEW PRO finds appropriate studies even when the descriptions vary. For example, other PACS software differentiates descriptions such as R-Shoulder, Shoulder-R, Humerus, Arm or Upper Extremity and would fail to display these differently named studies for comparison. IMAGE has solved this challenge by developing intelligent searches that understand diverse descriptions and rank results according to relevance. For example, a prior MRI-Brain performed for dementia would automatically be offered when reading a current CT-Head undertaken for evaluation of a cranio-cerebral trauma.

**Del Medical**

**Booth 1231**

**Digital Radiographic System**

The Del Medical OTC12D Overhead Tube Mount Digital Radiographic System, now with auto-tracking capabilities combined with the newly enhanced DelWorks E-Series DR system acquisition software, is a streamlined imaging system designed for the most demanding environments. The combination of the versatile cesium-iodide wireless 14” x 17” detector and the powerful diagnostic usability of the radiographic components creates a high-throughput, user-friendly system. DelWorks E-Series DR offers single point of operation along with integration to the patient information system for a seamless workflow experience. Configurations include single, dual or multiple detectors to further increase the efficiency of this digital imaging suite.

**VuCOMP, Inc.**

**Booth 4172**

**CAD for Mammography**

VuCOMP will showcase the latest enhancements to its M-Vu® System. M-Vu CAD for mammography is the first system proven effective in an FDA-approved reader study and its newest advancements provide radiologists with a substantial reduction in false positive marks, improved sensitivity, faster processing time, enhanced workflow and improved parallel architecture. In addition, VuCOMP will display a “works in progress” CAD solution for 3D breast tomosynthesis. M-Vu Breast Density advances the science of automated breast density assessment by adding a critical dimension to the analysis of dense breast tissue. The VuCOMP density category, analogous to the BI-RADS category, is now correlated to not only the amount, but also the distribution—actual dispersion—of fibroglandular tissue, providing radiologists with a consistent and accurate result.

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**Smart Mark Technology**

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Konica Minolta Medical Imaging Inc.
BOOTH 1918
Flat-panel for Extreme Environments
Ideal for ER, Trauma and ICU/CCU, the AeroDR XE wireless flat-panel generates exams faster with one-second image preview and processed images within eight seconds. Compatible on any X-ray device with industry-leading image quality, the AeroDR XE is easy to position with grip strips and easy to carry at 5.7 pounds. The reliability of the AeroDR XE helps avoid unplanned downtime and achieve greater productivity. Konica Minolta’s lithium ion capacitor extends panel life for up to 8.2 hours or 300 images. New panel drop sensors and monitoring provide ongoing data on panel handling, reducing repair costs and providing peace of mind. AeroDR XE features the best weight to load ratio—up to 661 pounds—and the highest bend resistance and liquid resistance on the market. Completely sealed with no external battery, AeroDR XE can be wiped clean with approved cleaners after each use to fulfill infection prevention protocols.

CCU, the AeroDR Trauma and ICU/Environments
Flat-panel for Extreme Environments
BOOTH 1918

FULL EXHIBITOR LISTING
To see complete company profiles and product information, visit RSNA2014.RSNA.org/ExhibitingCompanies.

FILM AND IMAGE MANAGEMENT
Mach7 Technologies
BOOTH 6344
Image Management Systems and Services
Mach7 Technologies is a global provider of enterprise image management systems and services that allow healthcare enterprises to easily identify, connect, and share diagnostic image and patient care intelligence where and when it is needed. Our innovative communication and workflow technology delivers complete image management including rapid record identification, integration, synchronization and routing, advanced clinical viewing and optimized vendor neutral archiving across the enterprise. The Mach7 Enterprise Imaging Platform provides the most robust, fully functional product set in the industry for clinical archiving and communication. Mach7 helps customers unleash the potential of imaging data to improve patient care, revenues, compliance and physician satisfaction across the enterprise.

CoActiv Medical
BOOTH 8300
Advanced Image Management
CoActiv showcases its innovative EXAM-PACS, EXAM-RIS, EXAM-BROWSER and VNA storage product portfolio, with an industry-leading range of deployment options. All CoActiv products run onsite, in the cloud or in a hybrid environment, catering to a client’s needs. EXAM-RIS is now fully cloud-based, while EXAM-PACS version 3 includes user-defined tags to for a new level of categorization and action triggers. EXAM-CLOUD/EXAM-VAULT VNA can be deployed to image-enable an EHR and support user-controlled access with tiered permissions from any location without installing a VPN. All CoActiv solutions are affordably priced with low cost of ownership and a variety of payment options from per click to full ownership with lifetime support and upgrades.

Volpara Solutions
BOOTH 1752
Volumetric Breast Imaging
Volpara Solutions will exhibit its complete suite of quantitative breast imaging tools built on the Volpara Solutions software engine that allows for personalized measurements of volumetric breast density, patient-specific dose, breast compression and other factors designed to maintain accuracy and consistent quality in breast screening. VolparaDensity is used by radiologists to objectively assess density from digital mammography and tomosynthesis images to help doctors evaluate which women would benefit from additional screening. Highly correlated to breast MR, VolparaDensity reliably generates an objective measurement of volumetric breast density. VolparaAnalytics assists in quality assurance by monitoring critical elements of the breast imaging process and generating key metrics to help breast imaging centers monitor the performance of technologists, readers and mammography and tomosynthesis machines. VolparaDose calculates mammography dose by using a standard mean glandular dose algorithm along with patient-specific volumetric breast density to give a better estimate of the dose absorbed by the specific breast.

The information for these new products and services was provided by the manufacturers. Inclusion in this publication should not be construed as a product endorsement by RSNA.

INTERACTIVE TIMELINE
Explore milestones of the science, technology, and innovators who shaped radiology and RSNA. Comment and share to social media.

SHARE YOUR STORY
Remember a mentor’s words of wisdom or the defining moment that made you enter the specialty? We want to hear your story.

CENTENNIAL SHOWCASE
Explore the advancements that shaped radiology and discover how RSNA has been the convener for radiologic innovation throughout the century.

Help us celebrate and lend your voice to

CELEBRATE RADIOLOGY’S EVOLUTION
For 100 years, the evolution of the Radiological Society of North America (RSNA) has been inextricably tied with the evolution of radiology itself.

RSNA.org/Centennial

The technical exhibition booth key
South Building, Hall A
Booths 1000 – 5999
North Building, Hall B
Booths 6000 – 8999
Claron Technology
BOOTH 8009
Enterprise Image Management
Claron enhances its NiRead platform for enterprise diagnostic image management with an expanded set of capabilities for scalable cloud multi-tenants and distributed deployments, enhancing NiU’s adaptability for both multi-location enterprise deployments and networks of imaging practices. NiRead 4.0 also includes new advanced diagnostic features such as carved reformat, spine labeling and measuring tools and a vessel analysis package that automates vessel detection, analysis and viewing. Additionally, Claron showcases NiShare 4.0, a comprehensive enterprise viewer, supporting major format DICOM RT to display comprehensive radiation therapy plans enterprise-wide. NiShare 4.0 now also includes smart work filters to personalize patient lists for each department and clinician. Continuing its tradition of innovation, Claron supports the widest set of devices and operating systems, including the latest iPhone6, BlackBerry Passport, Android and Windows.

Materialise
BOOTH 8521
Clinical 3D Printing
Materialise addresses the need for clinical 3D printing by offering our new Mimics Innovation Suite Hospital Package, which consists of software, services and training. The package is flexible to meet the needs of individual institutions. From a low-risk approach to consultation for establishing a 3D printing center-in-house, the Mimics solution offers a customized combination of the following: the Mimics Innovation Suite of software for medical image processing and preparation for 3D printing; comprehensive software training, conversion and segmentation services of CT, MRI or 3D ultrasound data; 3D-printed anatomical models from nearly any technology or material; 3D-printed HeartPrint models (also available in proprietary materials); and consulting and software for in-house 3D printing.

Contemporary on Page 6B

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NUCLEAR MEDICINE
Beijing High-Energy New Technology Co., Ltd.
BOOTH 4074
Positron Emission Mammography
A new polygon positron emission mammography imaging system called PEMi with the ability to detect millimeter-sized lesions was developed by the Institute of High Energy Physics, Chinese Academy of Sci-

CONTINUED ON PAGE 6B
ens. The system is constructed in a poly-
gon structure with lutetium-ytrrium oxy-
thorosilicate (LYS0) crystal arrays mounted
on a position-sensitive photomultiplier. The
diameter of the detector ring is 166 mm and
the axial length is 128 mm. The transaxial
FOV of PEMi is 110 mm. Reconstructed
image resolution at the center of FOV is
more than 2 mm. A clinical experiment was
performed to verify its ability in practical
applications, especially in detecting small
tumors (less than 1 cm). Results indicate
that PEMi provides better resolution in the
detection of millimeter-sized breast tumors.
The smallest lesion detected by PEMi was
3 mm. Furthermore, PEMi has a number of
advantages, such as the ability to detect
minute lesions, accurate lesion localization
and biopsy guidance.

A novel augmented reality guidance system
designed for Show Chwan Health Care includes
a conventional camera, 3D projector and
3D model extracted from CT scan. The
Augmented Reality Guidance System helps
surgeons by merging an X-ray image with
external video view of the patient, C-arm/
surgeons by merging an X-ray image with
3D model extracted from CT scan. The
virtual Navigator is an electromagnetic tracking
system, which informs the operator about
the position and the orientation of the probe
in a 3D environment, ensuring fast, easy,
and effective scanning. Virtual Navigator
takes all the advantages of different modal-
ities and provides a real-time, low-cost and
radiation-free solution that aims to guide
operators in diagnosis, everyday clinical
practice, interventional procedures, research
and teaching. In addition, the virtual biopsy
and intelligent positioning features enable
reaching even difficult targets quickly and
accurately with a virtual needle tracking
system. This offers infinite possibilities for
patient monitoring, diagnosis and follow-up
and is the perfect solution for interven-
tional radiology, urology, neurosurgery,
vascular, musculoskeletal, joint injection,
pathology and pain management.

The information for these new products
and services was provided by the manufacturers.
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Technical Exhibition Booth Key
South Building, Hall A
Booths 1000 – 3599
North Building, Hall B
Booth 6000 – 8999
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For more information, call (800) 794-5955, email info@drsys.com, or visit www.drsys.com.

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