Welcome Aboard!

By: Ann Gallaher, COO, Technology First

Technology First runs on the commitment of volunteers serving on committees, writing articles for our magazine, making presentations, facilitating discussions, and contributing their time to new programs and events. The most treasured of all volunteers are the Board of Directors. They have the most in-depth knowledge of the priorities and inner-workings of the organization.

During the January meeting, new community leaders were welcomed to the Board of Directors for Technology First. As a newly elected Board member, Diana Bolden is the Chief Information Officer for Teradata. In this position Diana is responsible for providing strategic IT leadership for Teradata and operational guidance for nearly 150 global IT professionals.

She joined Teradata in September 2007 bringing 25+ years of NCR IT Services experience, including 12 years of global leadership for technology, infrastructure, Enterprise Resource Planning, IT solutions engineering and global application development.

Diana holds a BS in Business Management with a Management Information Systems minor from the State University of New York (SUNY) at Buffalo and an MBA from the University of Dayton.

Also newly elected, Scott McCollum is currently the Chief Information Officer at Sinclair Community College, where he has been employed for 25 years in roles of increasing responsibility. He manages an organization of over 100 employees.

His most recent prior position was as the Chief Technology Officer and the Director of Information Technology Services, where he managed the organization which supports the college’s infrastructure. He has a BS in Management Information Systems from the University of Dayton and an MBA from Wright State University.

We would like to thank Jason Evans from Infosys for his leadership and guidance as our treasurer and Bob Turner from Commsys for his roles as vice chair, treasurer, and member of the Finance Committee. Both are leaving the board after many years of service for work-related priorities.

Please join me in welcoming our new and thanking our retiring Board members!
### Registration and Breakfast

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:45 - 8:30</td>
<td>Breakfast Keynote:</td>
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<tr>
<td>8:30 - 9:30</td>
<td>The Bad Boys of Cybercrime, Christopher Pogue, SpiderLabs Director, Trustwave - Charity Auditorium</td>
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### Networking and Exhibition Time

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<tr>
<td>12:10 - 1:30</td>
<td>LUNCH KEYNOTE: Surviving PCI-DSS 3.0</td>
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<tr>
<td></td>
<td>Charity Auditorium - Presentation from 12:30pm to 1:15 pm</td>
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### Reception Keynote:

<table>
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Unified Communications: What’s the Benefit?

By: Dean Evans, Infrastructure Practice Leader, Technology Consulting - Great Lakes Region, McGladrey

Increasingly businesses and organizations of all sizes are realizing the benefits of deploying Unified Communications (UC) services. While many of these services are not new to large enterprises, organizations of all sizes now have the opportunity to leverage integrated and mature systems that can be cost effectively deployed. Most organizations now include highly mobile and collaborative workforces (mid-sized and small companies included) with remote workers and external team members that need to work together regardless of physical location. These workers need to be easily connected with their team members, customers, vendors, and partners in order to provide increased sales performance, rapid problem resolution, and most importantly improve overall customer satisfaction and loyalty to provide competitive differentiation. Escalated employee expectations have been fueled by the adoption of blockbuster consumer applications – Skype, Facebook, Facetime, Linked In, text messaging to name a few – which now means that IT teams must deliver tools that both improve collaboration and provide increased productivity across the variety of platforms (tablets, Smartphones, laptops, etc) that define the mobile workforce.

What is Unified Communications?

Unified Communications integrates several real-time communication services such as instant messaging (IM), presence information, voice calling, video calling, Text Messaging (SMS), and web collaboration. These systems, when combined with the non-real-time stalwarts of business communication (Voicemail, E-mail, and Faxing) provide a single unified portal for team members to interact quickly and effectively with each other and customers alike.

What does it mean to the user?

UC allows employees to work wherever they need, from a home office or the golf course, and it gives them the “presence” of sitting at their desk in the office. It means voicemail is delivered to the Inbox and can be opened, reviewed, and dealt with from any device that they are comfortable with. Ultimately it means a team in multiple locations can collaborate in a fully immersive environment with audio, video, and web conferencing while discussing issues and making decisions quickly from a single user interface or app that is easy to use.

Why consider a move to a UC platform?

The technology has evolved and the integration of these systems is much simpler, in terms of deployment all the way through the full lifecycle including ongoing support and maintenance. Several vendors (Microsoft, ShoreTel, and Cisco to name a few) now have solutions that are extremely reliable, easy to use, and provide a consistent approach to achieve business goals across all facets of an organization. These solutions work across hardware devices that users are familiar with and play a central role in the adoption of Mobility and BYOD (Bring Your Own Device) that organizations are currently considering. Voice over IP (Voice over Internet Protocol; simply VoIP) is a proven

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methodology that can be deployed with confidence and when using the VoIP standard of SIP trunking as an alternative to the more expensive traditional phone services such as PRI and POTS, businesses are experiencing lower monthly costs while also achieving increased flexibility with rapid deployment and agility to move SIP lines easily to other locations. Furthermore, hosted or “cloud” offerings, such as Microsoft’s Office 365 and Lync products along with ShoreTel Sky, have matured and provide an opportunity to provision these systems with little capital expense and with the resiliency that comes with hosted solutions.

Where’s the business benefit?

Employees and team members want and expect to work anywhere at any time - UC enables them to do so as if they are in the office. It has been proven that teams will collaborate with each other and customers more effectively with greater ease and consequently with increased productivity when UC is deployed and integrated within the culture. Given the evolution of these solutions, deployment should be considered as current email and voice PBX systems are approaching end-of-life. Often times, the ROI is fast with visible direct cost reductions in Telco expenses (deployment of VoIP, reduction in toll calling) and allowing workers to telecommute (reduced travel expenses). Additionally, new employees want and expect to be enabled to interact with team members through mechanisms that they have grown accustomed to (or grown up “with”) – Unified Communications potentially underpins a culture that can better recruit and retain key talent.

McGladrey can help you leverage the power of Unified Communications and determine if a system makes sense for your organization. For more information on Unified Communications please contact McGladrey’s technology consulting professionals at 800.274.3978 or contact us.
Developing Responsive Websites in WordPress

By: Todd M. Godbout, Segue Technologies

WordPress is one of today's more popular Content Management Systems (CMS) and, like any other website, it must incorporate responsive behavior in order to be relevant in today's web viewing environment. The graphical interface for all WordPress sites is controlled by themes – a collection of template files that not only create the graphical interface of the site, but also allows developers to control the presentation without modifying the underlying php software. Developers can utilize default WordPress themes, incorporate third party themes, or create their own custom themes. Responsive themes are available through many of these third parties, but in most instances, developers must design and implement their own. That is what Segue Technologies implemented for one of our customers: The Hybrid Shop.

Creating a Custom WordPress Theme

When creating your own theme, how do you create a responsive custom theme? A WordPress theme consists of several entities (Navigation menu, Headers, Footers, Sidebar, and Widgets) and each present their own challenges. The first step is to create wireframes for each page as rendered for each environment (smartphone, tablet, desktop). Take particular care for the Navigation menu and Sidebar, especially if your site utilizes sub-menus.

For The Hybrid Shop, each sub-page consists of a main navigation menu and a sub-menu. Both of these menus had to be redesigned from a desktop layout and we chose differing accordion styles. For sidebars, we chose to move the sidebar layout to a single column for smaller screens. For Widgets, we created multiple CSS styles changing the layouts and font sizes to match the environment. Make sure you review our post using CSS3 and media queries as explained in How CSS3 Supports Developing Responsive Design Websites.

For The Hybrid Shop site, we designed two versions of the Navigation menus, one for the desktop and the other for tablets and smart phones. We used media queries to determine when to change the tabular menus to accordions and then utilized jQuery to open or close the menus. In our html, we created two div elements to act as containers for each style of menu. Then we dynamically display each element based on the environment. When the screen width is below 61.25em we hide the horizontal navigation menu and display the vertical – or drop down menu.

For sidebars, we followed the same process and used media queries to move the sidebar content below the main content. This is accomplished by changing the width property of the sidebar class to 100%. On a desktop the width for the sidebar is set to 30%, but on tablets and smart phones the width is changed to 100%, forcing the sidebar to be displayed the full width of the device. See Figure 3.1 and 3.2 (Primary Sidebar Layout) and Figure 4. (Responsive Sidebar Layout)

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Finally, you will have to examine other widgets and layouts to make sure all are responsive. In our “The Hybrid Shop” example we were forced to handle the footer layout with care. We changed our three column grid layout to a singular column layout and changed the size and markup of individual elements.

In conclusion, designing responsive Wordpress sites is possible, but requires detailed planning and wireframes for all Wordpress features – particularly menus, sidebars, and widgets.
On **May 15, 2014** Technology First will host our first technology awards event. During the last strategic planning process, the Board of Directors voted to begin to recognize individuals and teams that are making a difference in the information technology sector and the greater Dayton community.

The Technology First Leadership award recognizes the contribution of information technology professionals ensuring a vibrant Dayton community. Recognizing Individuals and Teams exemplifying Technology First Values: creating a community to share knowledge, grow business, and explore the future.

### CATEGORIES:

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Emerging Leader Award</strong></td>
<td>A junior level professional exhibiting excellence in the workplace and leadership in the Dayton area IT community.</td>
</tr>
<tr>
<td><strong>Outstanding Technology Team</strong></td>
<td>An IT department that has impacted the efficiency, productivity, and performance of their company.</td>
</tr>
<tr>
<td><strong>Community Advocate of the Year</strong></td>
<td>An IT professional or organization that has enhanced the adoption and use of technology through volunteer contributions.</td>
</tr>
<tr>
<td><strong>Best IT Services Company</strong></td>
<td>An IT company that has increased its investment in the Dayton region through revenue, jobs, or capacity.</td>
</tr>
<tr>
<td><strong>IT Executive of the Year</strong></td>
<td>A senior level professional responsible for influencing progress and developing teams through leadership excellence.</td>
</tr>
</tbody>
</table>

Registrations are open until February 21st!

**TO REGISTER GO TO:**

www.technologyfirst.org/techleadershipawards

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ELIGIBILITY:

Nominees must have a presence in the greater Dayton region.

Making a nominations is open to everyone:

- Customers can nominate their suppliers.
- Employees can nominate their management.
- Peers can nominate each other.
- Suppliers can nominate their customers.
- Company can nominate themselves.
- Management can nominate their staff.

Note: Individuals and companies can be nominated by more than one party.

Third party nominations / endorsements such as customers or partners are encouraged.

Each category will have at least one winner.
(Depending on the number of entries some categories may have more than one winner based on company size)

Must be a member of Technology First.

Don’t Forget... Registrations are open until February 21st!
So, be a part of this exciting new program and nominate an individual or team today!
CSS Frameworks: a Developer’s Best Friend

By: Zach Schneider, OMNISPEAR

Most contemporary web developers recognize the importance of using an application framework when developing for the web. From Ruby on Rails to the litany of PHP frameworks available to up-and-coming Node.js offerings, application frameworks substantially reduce development time while improving code readability and standardizing development practices for the web. Surprisingly, though, many developers continue to handcraft their CSS for each application, or copy-and-paste legacy layout styles to new projects. CSS frameworks improve developer workflow for a few key reasons:

1. **CSS Frameworks Standardize Layout Code.**

   Handcrafting layout code or maintaining your own company styles is a functional solution, but it reduces readability. New developers, or developers working on new projects, must learn the terminology and intersectional usage of a number of styles before they can step in to make changes. Custom stylesheets that have passed through a number of hands often accrue a number of outdated, conflicting, or repetitive styles that further worsen this problem. Regular refactoring can solve this problem to an extent, but who wants to waste time rewriting old CSS?

   CSS frameworks standardize layout code because each class in the framework has the same meaning across applications, in much the same way that each element of an application framework connotes the same functionality across projects. This keeps stylesheets short and readable: each developer can learn the framework styles once, and only have to use custom styles for application-specific colors and layout elements.

2. **CSS Frameworks Solve Cross-Browser Compatibility Issues.**

   A mature CSS framework, such as Bootstrap or Foundation, will have undergone an extended period of open-source development. This means that layout issues with old browsers have often been sussed out already, eliminating most of that feeling of shock you get when you first open your site in IE7. Cross-browser testing is a must for any project, but a good CSS framework will solve many problems for you before you even notice them.

3. **CSS Frameworks Play Well with Mobile Devices.**

   CSS frameworks are generally built around responsive principles, automatically optimizing content and even menus for the mobile web. While application-specific tweaks will need to be made, frameworks drastically reduce the time necessary to create a great user experience on mobile platforms. Additionally, some frameworks, such as Foundation, include layout elements that allow you to control the flow and order of layout elements as they are resized downwards.

**Which Framework?**

The two most common CSS frameworks being used today are Twitter’s Bootstrap and Zurb’s Foundation. Both offer the advantages mentioned above and neither is a poor choice; however, they have different focal areas that make each one a better choice for different types of projects. Bootstrap has traditionally been focused more around desktop than mobile, although this has changed to an extent with its most recent release; if battle-tested responsive behavior is important to your project, Foundation is the better choice. Additionally, a number of developers tend to adhere too closely to stock Bootstrap in their implementations, creating a “Bootstrappy feel” that plagues a number of websites. Foundation doesn’t tend to create this effect, but that may be just because it’s currently the less popular of the two. Finally, if your application is in Ruby on Rails, Foundation is the far superior choice; it is implemented with SCSS classes that allow you to easily create mixins and adjust variables to easily access powerful customizability. Whichever option you select, though, use of a CSS framework will go a long way towards building a powerful, beautiful application with readable, well-maintained styles.
Benefits of Choosing a HIPAA Certified Cloud Provider

Congress passed the Health Information Portability and Accountability Act, HIPAA, in 1996. Since then, healthcare organizations have worked hard to establish standardized formats for patient health, administrative, and financial data.

Security mechanisms surrounding electronic Protected Healthcare Information (ePHI) that ensure confidentiality, data integrity, and availability are key to these efforts. Your medical facility has worked hard to become HIPAA compliant – and so have we.

US Signal engaged Health Care Management Inc. to examine our institutional policies and procedures and recommend changes to ensure our facilities and practices are HIPAA compliant. As a result, US Signal has instituted:

- Corporate Security Officer that directs the implementation and monitoring of standards and protocols related to ePHI
- Internal security rules that govern everything from password creation to access into data centers
- Incident Response Team that quickly rectifies any potential security risk (internal or external) to prevent data breaches
- Comprehensive disaster recovery and business continuity plan that is reviewed and tested annually
- Eight-person Executive Security Team that scrutinizes all aspects of US Signal's HIPAA compliance efforts to ensure their integrity and relevance

The HIPAA Act stipulates over 100 controls that must be in place in order to be deemed compliant to the law. Health Care Management Inc. has created a report that shows US Signal's policies and procedures have satisfied each one of these controls and attests that US Signal is a HIPAA compliant company. We are happy and proud to share this report with you. Just ask us.

HIPAA compliance is deeply embedded in US Signal's corporate culture. Your ePHI, how it traverses our network and how it sits in our data centers is our number one priority. We have invested substantial capital in safety features and staff training to guard our facilities and the information it houses. As new requirements for higher levels of security inevitably present themselves, US Signal is prepared to meet those demands.

ABOUT THE AUTHOR: Mark Neistat

Mark Neistat is the Field Marketing Manager for US Signal. Utilizing the resources of US Signal's highly-skilled marketing team, he works directly with partners to develop and implement detailed strategies that create awareness, build their brand, and highlight combined strengths. Mark's diverse career included stints as a call center manager, selling network services, product marketing, and, with US Signal, assisting in developing the go-to-market strategy for Cloud Hosting. Today, he uses his over 25-years of sales and marketing experience to contribute to the US Signal blog – which he thoroughly enjoys.
Our Region’s Employment Environment... The Miami Valley region offers its residents a rich quality of life - good schools, affordable housing and diverse community living. The common mission of community partners is to develop the region’s workforce. Preparing students for future jobs and connecting established professionals to current opportunities will ensure the economic success of the region.

DIGITAL MIXER

On February 20th, students from Cedarville University, Sinclair Community College, University of Dayton, Clark State Community College, Wright State University and many others will participate in this unique student and professional networking event. No company booths or banners will be set up – just a room filled with conversation about the Dayton IT industry. If you are interested in networking with IS/IT majors to discuss your company or to find the skills your company needs to stay competitive, then you should plan on attending the Digital Mixer information technology Student Networking event from 4:30-6:30pm. This is the only networking event for ALL of the regional colleges’ engineering/IS/IT related majors.

ROBERT V. MCKENNA SCHOLARSHIP

Technology First has collaborated in a strategic partnership with the Robert V. McKenna Scholarship Golf Tournament. Through their generous contribution students in Southwest Ohio have received scholarships for over 20 years!

The Robert V. McKenna Memorial College Scholarship is awarded annually to one or more deserving Southwest Ohio area college students. Students selected for this scholarship are matriculating in Information Technology related curriculums, have achieved distinguished academic success, and have demonstrated high character and values.

Since their collaboration began, Technology First and the Robert V. McKenna Golf Tournament committee have been proud to award over $50,000 to students from Central State University, Clark State University, Miami University Middletown, Sinclair Community College, University of Dayton, Wilberforce University, Wright State University and Xavier University.

Scholarship applications are available online in the Employment Exchange section of www.technologyfirst.org

ROBERT V. MCKENNA GOLF TOURNAMENT

This year the Robert V. McKenna golf committee will host their 26th annual tournament to generate funds for their scholarship fund. The event will be held on June 13th at Shaker Run Golf Course. If you are interested in sponsoring this event please contact Bill Nissen at wnissen7540@gmail.com. More information about how to participate and register will be posted on the Technology First community calendar.

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Project Manager ..................................................... Sogeti USA LLC
Lead Quality Assurance Analyst .............................. Sogeti USA LLC
Business Intelligence Consultants ........................... Sogeti USA LLC
Business Analyst ..................................................... Sogeti USA LLC
.NET Developers .................................................... Sogeti USA LLC
Paid Web Development Intern .................................. OmniSpear, Inc.
Software Developer ................................................ Ardent Technologies, Inc.
Inner Office Support - ............................................. CommSys, Inc.
Software/Hardware Facilitation
Technical Support / Help Desk .................................... CommSys, Inc.
Systems Manager ..................................................... Dayton Metro Library
Major Account Sales Rep - Dayton, OH ...................... Perry proTECH
Regulatory Compliance Specialist ............................. Trimble Navigation

For more information about these jobs and other jobs, please visit:
http://www.technologyfirst.org/component/employment_exchange

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Writers: Our mission is to support the growth of Greater Dayton's information technology industry. Technology First provides a forum for educators, business, and technical professionals to communicate their expertise and lessons learned while working in the field. Please submit the article in Word, preferably with 500 to 700 words, with any graphics in pdf to agallaher@technologyfirst.org. Please include your name, business organization, business address, phone number, fax number, e-mail address, and a brief description of any professional accomplishments. Please also include a digital photograph if available.

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Miami Valley Research Park, 1900 Founders Dr., Kettering 03/10-03/21, 8:30am-5:00pm, $3,984

Java Programming
Intensive and hands-on, this 5-day course emphasizes becoming productive quickly as a Java™ application developer. This course quickly covers the Java language syntax and then moves into the object-oriented features of the language. Students will then use several of the provided API packages, such as I/O streams, collections, Swing GUI programming, threads, and accessing a database with JDBC. This course includes and extensive suite of labs. It is current to Java 7 and uses the Eclipse IDE.
Miami Valley Research Park, 1900 Founders Dr., Kettering 03/10-03/14, 8:30am-5:00pm, $2,499

Developing Android Mobile Apps for Business
The Android OS platform has overtaken the mobile device marketplace. Android has become the dominant operating system for tablets and smartphones, not to mention a myriad of other gadgets such as digital picture frames, streaming TV servers, and so forth. In this course, you will learn how to develop and publish an Android app, focusing on developing business apps for tablets and smartphones that are compatible with a wide variety of Android versions and device layouts.
Miami Valley Research Park, 1900 Founders Dr., Kettering 03/19-03/21, 8:30am 5:00pm, $1,650

Unleash your creative potential with Adobe Creative Suite!
Adobe Dreamweaver CS6
In this course, you will use Adobe Dreamweaver to create web pages while focusing on the content, styling, and design. As you construct the web pages, Dreamweaver will competently create the XHTML, CSS and JavaScript required.
03/12, 8:30am-4:30pm, $400

Adobe Photoshop CS6
Adobe Photoshop CS6 Part 1 focuses on some of the basic features of Photoshop so that the student can navigate the environment and use Photoshop tools to work with photographic images. In addition, the orientation to Adobe Bridge and organization of files in Bridge is covered.
04/02, 8:30am-4:30pm, $400

Adobe Illustrator CS6
This course focuses on Illustrator CS6, the component within CS6 used to create “drawn” graphics, while enabling its users to integrate content from other domains. With Illustrator’s many tools, you’ll be able to capture multiple ideas during the creative process in ways that you never imagined.
04/09, 8:30am-4:30pm, $400

All classes are held at Miami Valley Research Park, 1900 Founders Dr., Kettering. Call 937-252-9787 or visit sinclair.edu/workforce for more information.
Mobile Responsive Websites For Companies on the Grow

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- Ecommerce Solutions
- Search Marketing
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