

## **Demo Participants**

To view additional company information and multi media, visit our **Digital Demo Pavilion** at [www.cednc.org/demo2007\\_wiki](http://www.cednc.org/demo2007_wiki).

**3dMD LLC**

**Agarigen, Inc.**

**AP Solutions, Inc.**

**Blue Square Energy**

**BrightDoor Systems, Inc.**

**Calyptix Security Corporation**

**C Change Surgical LLC**

**CyberImaging Inc.**

**Discover Technologies Inc.**

**Firethorn**

**Grancrete, Inc.**

**LobbyGuard Solutions, LLC**

**LOC-AID Technologies Inc.**

**Magnus Health Portal**

**Modality**

**North Carolina State University - Nanotechnology**

**NovaVision, Inc.**

**ParagonDx, LLC**

**PogoHealth**

**Potomac Photonics**

**Secure Command, LLC**

**SEQUENTRIC Energy Systems**

**Skyway Software**

**Smart Perfusion LLC**

**Specialty Wood Components**

**TIRF Technologies Inc.**

**University of North Carolina at Chapel Hill, Depts. Of Radiology & Computer Science, VDP Group**

**Yap Inc.**

**Zua Scene**

**Zylaya Corporation**

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### **3dMD LLC**

[www.3dmd.com](http://www.3dmd.com)

Atlanta, Ga.

3dMD provides high-precision, ultra-fast (1.5 milliseconds) 3D surface imaging devices and sophisticated real-time 3D volumetric imaging software for patient measurement, evaluation, planning, monitoring progress and outcome simulation. 3dMD's 3D software platform supports a new generation of treatment tools that simulate hard and soft tissue outcomes using the patient's fused image (CT/CBCT/3dMD/etc) as the foundation. The company also has dynamic 4D (60 frames per second) capture which is the basis of cutting-edge research being conducted by Dr. Carroll Ann Trotman at the School of Dentistry, University of North Carolina at Chapel Hill.

### **Agarigen, Inc.**

[www.agarigen.com](http://www.agarigen.com)

Research Triangle Park, N.C.

Agarigen's Mushroom-Made Pharmaceuticals (MMP™) System can deliver high-quality therapeutics at one-fifth the current manufacturing cost, in one-third the time, with capital start-up costs one-fifth that of current cell culture manufacturing facilities. Agarigen's MMP™ System produces biologic drugs using the button mushroom (*Agaricus bisporus*) as a biological factory. The low cost of production, rapid growth cycle, and high volume of mushroom biomass make the MMP™ system the most effective way to manufacture biologic pharmaceuticals.

### **AP Solutions, Inc.**

[www.aplasmasolution.com](http://www.aplasmasolution.com)

Cary, N.C.

AP Solutions is currently manufacturing and selling prototypes of the world's first environmentally responsible, hand-held, atmospheric plasma delivery system based upon a patent-pending PlasmaFlux technology. The PlasmaFlux technology quickly and safely removes paint and polymeric coatings from delicate, temperature-sensitive surfaces, such as composite aircraft structures, without damage to the underlying substrate. The PlasmaFlux technology only uses electricity and plasma-excited air to remove these coatings; no VOCs, no solvents or grit blasting materials are required. PlasmaFlux technology has been used in the process to convert waste biomass (like hog waste or switchgrass) into alternative fuels like methanol and ethanol. The technology can also be used to create nanoparticles for the solar energy, cosmetic, and biomedical industries, scrub toxic pollutants from air and water effluents, and replace a variety of other industrial processes typically requiring expensive vacuum chambers.

### **Blue Square Energy**

[www.BlueSquareEnergy.com](http://www.BlueSquareEnergy.com)

North East, Md.

Blue Square Energy has developed a proprietary high-performance, thin-film crystalline silicon solar cell technology called Bright Point. Bright Point solar cells combine a low-cost, boron-rich silicon substrate with a high-performance thin-film silicon active layer to deliver a product that matches the high performance and reliability of traditional crystalline silicon solar cells at a fraction of the cost. To achieve high efficiencies, a high-purity thin layer of silicon (less than 20 microns) is deposited on the substrate through a proprietary manufacturing process. Blue Square Energy is fast-tracking commercialization of the Bright Point technology with market introduction anticipated for the second quarter of 2008.

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## **BrightDoor Systems, Inc.**

[www.brightdoor.com](http://www.brightdoor.com)

Cary, N.C.

BrightDoor is the leader in on-demand presentation and relationship management software specifically for the real estate industry. Unique in the industry, BrightDoor enables developers, builders and real estate marketers to rapidly deploy electronic media across their entire sales and marketing cycle. From online web portals to dynamic onsite sales tools, BrightDoor makes everything work together effortlessly.

## **Calyptix Security Corporation**

[www.calyptix.com](http://www.calyptix.com)

Charlotte, N.C.

Calyptix Security sells an all-in-one network security appliance, AccessEnforcer™, to the small- and medium-size business market that provides a firewall, intrusion prevention system, VPN, email filter (spam, virus & phishing), web filter (virus & content) and Instant Messaging blocking. AccessEnforcer deploys DyVax™, a dynamic inspection engine that filters true zero-day viruses and other malware from email, executable files and Microsoft Office files without any reliance on signatures. Calyptix will leverage this foundation of deployed units and DyVax to build the Internet Defense Force™, a decentralized scalable Internet security architecture, to proactively protect networks without signatures from rapidly emerging threats well in advance of traditional methods.

## **C Change Surgical LLC**

[www.cchangesurgical.com](http://www.cchangesurgical.com)

Winston-Salem, N.C.

C Change Surgical, LLC of Winston-Salem, NC is a closely held private company run by highly experienced device industry executives. C Change developed and patented an "intelligent work station" for surgery that addresses a growing \$500 million U.S. market. IntraTemp™ stands control critical sterile fluids and require a single-use procedure kit for each surgery. C Change successfully executed a limited market release in late 2006; IntraTemp™ products are being used in hospitals now. Strong clinical trends and a recent change in U.S. and European standards have created a significant opportunity for these products. C Change holds four issued patents and has seven pending applications. Our next step is to invest in production, sales and marketing.

## **CyberImaging Inc.**

[www.cyber-imaging.com](http://www.cyber-imaging.com)

Raleigh, N.C.

CyberImaging Inc. has developed the EyePOD, a *soon-to-be* national network of mall-based kiosks that provide consumers with new eyeglass prescriptions using digital imagery. After a brief video conference with a doctor of optometry, the patient can select and order frames and lenses from an online virtual try-on site.

## **Discover Technologies Inc.**

[www.discover-technologies.com](http://www.discover-technologies.com)

Research Triangle Park, N.C.

Discover Technologies has developed plastic muscles using patent-pending technology that mimics human muscle and skin in their ability to generate motion and sense pressure. These plastic muscles have advantages over conventional technologies in their small size, light weight, low power consumption, and silent operation. Discover Technologies' plastics have a wide range of applications in the aerospace, robotics, automotive, electronics, and biomedical industries. The company is exploring the technology in fuel efficiency of automobiles, aircraft, and ships, as well as applications in biomedical implants, drug delivery pumps and mobile phones.

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**Firethorn**

[www.firethornmobile.com](http://www.firethornmobile.com)

Atlanta, Ga.

Firethorn is a mobile banking and payments enabler that links financial institutions and wireless carriers through a unified, secure and scalable technology platform that seamlessly extends full-service banking and payments capabilities to consumers from any financial institution to virtually any wireless device. Financial institutions and wireless carriers alike gain a competitive service differentiator that improves customer retention, generates revenue and answers consumer demands for more product/service convenience.

**Grancrete, Inc.**

[www.grancrete.net](http://www.grancrete.net)

Durham, N.C.

Grancrete, Inc. has developed and manufactured a line of environmental-friendly materials used in repair, construction, fire/water protection and waste management. The materials are rapid setting, strong, tolerant and durable. Adding water, including salt water, mix and move quickly is all that is needed. The material sets in 15-20 minutes and can be poured, towed or sprayed.

**LobbyGuard Solutions, LLC**

[www.lobbyguard.com](http://www.lobbyguard.com)

Raleigh, N.C.

LobbyGuard has developed a highly effective visitor management system and visitor tracking solution that enhances school safety and corporate security. LobbyGuard records all visitor and employee traffic details, runs instant background checks, prints photo identification badges, and provides access to a full range of visitor traffic reports from anywhere on the web. The LobbyGuard Kiosk incorporates a touch-screen kiosk interface, camera, driver license scanner, barcode scanner, and visitor badge printer to provide the user with a simple and complete method for signing in and out.

**LOC-AID Technologies Inc.**

[www.loc-aid.net](http://www.loc-aid.net)

Boca Raton, Fla.

LOC-AID has developed a location-aware mobile marketing platform called ACE (Application Creation Engine), that is offered to Fortune 500 enterprises, content/media companies, and wireless carriers to create branded location validated mobile marketing campaigns such as location-based promotions, scavenger hunts or point-to-point "chases". The Marketing ACE platform delivers content-rich interactions using Short Message Service (SMS), Mobile Message Service (MMS), Wireless Application Protocol (WAP) or as a downloadable application in Java or BREW.

**Magnus Health Portal**

[www.magnushealthportal.com](http://www.magnushealthportal.com)

Raleigh, N.C.

Magnus Health Portal has developed Msense™, a coordinated software platform that consolidates thousands of points of healthcare information. The Msense™ software package imports information from disparate medical information systems, Internet connected PC's and paper records. These secure tools then search the records in a Google fashion, analyze them to provide current health status and active medical recommendations, and can generate real-time reports with the click of a button. Consumers and businesses both gain, while Magnus Health Portal generates multiple revenue streams from one proprietary software platform.

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## **Modality**

[www.modalitylearning.com](http://www.modalitylearning.com)

Durham, N.C.

Modality has developed technology to transform educational, reference and consumer learning books and materials into Raybooks. Raybooks are packets of images, text, audio and video content designed for secure delivery and effective use on the Apple iPod and other handheld devices. In addition to providing consumers a wide selection of trusted content (from such labels as CliffsNotes, Brain Quest, Frommer's, and Peterson's Field Guides), the unique Modality platform enables publishers to enter new markets rapidly without sacrificing content security, usability and valuable brand characteristics. Millions of iPod owners can purchase this content through Modality's online marketplace, raybook.com.

## **North Carolina State University – Nanotechnology**

<http://chsfpc5.chem.ncsu.edu/~franzen/sf.html>

Raleigh, N.C.

The North Carolina State University Department of Chemistry has developed an application of a naturally occurring protein construction that has a diameter of in the size range of 35-40 nanometers. This construction has a dynamic transition that allows loading of drugs and targeted release in cells. Important features include cell-specific targeting, controlled release and nuclear targeting within the cell.

NovaVision, Inc.

[www.novavision.com](http://www.novavision.com)

Boca Raton, Fla.

NovaVision has developed Vision Restoration Therapy (VRT), a daily at-home rehabilitation therapy that can reduce neurological vision loss that affects approximately 2.2 million Americans. While other rehab modalities have long been a standard of care for stroke and TBI patients, VRT addresses vision, an important missing rehabilitation. The therapy is performed on an FDA-cleared medical device, with regular updates tailored to the patient's deficit. Centers offering VRT use NovaVision's diagnostic to determine appropriate candidates.

## **ParagonDx, LLC (formerly Gentris Diagnostics, Inc.)**

[www.gentris.com/diagnostic](http://www.gentris.com/diagnostic)

Morrisville, N.C.

ParagonDx is a leading provider of applied molecular diagnostic products. Initially a pioneer in the field of pharmacogenomics, ParagonDx has broadened its expertise into molecular diagnostic products. ParagonDx develops and markets reference controls for laboratory quality control and diagnostic kits that bring the promise of personalized medicine to physicians and patients. ParagonDx was the first company to bring FDA-cleared human genomic reference controls to the market. These products are intended to enhance patient safety, improve patients' response to therapy and help realize the promise of personalized medicine. For additional information, please visit [www.ParagonDx.com](http://www.ParagonDx.com).

## **PogoHealth**

[www.pogohealth.com](http://www.pogohealth.com)

Durham, N.C.

PogoHealth provides personalized, science-based guidance on vitamins, minerals and herbals supplements for healthcare professionals and consumers. PogoHealth was designed by doctors and nutrition experts to help cut through the confusion about supplements with clear, unbiased, recommendations.

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## **Potomac Photonics**

[www.potomac-laser.com](http://www.potomac-laser.com)

Lanham, Md.

Potomac is expert in miniaturization of medical and electronic devices using laser-based technologies. Precision contract manufacturing, laser system manufacturing and technology development are provided for companies ranging from market leaders to start ups.. Features 1-300 microns and critical components for medical products like glucose sensors, DNA microarrays, stents and various diagnostic and drug delivery products; and electronics products like High Density Interconnects, chip cooling and flexible displays, combined with 15 patents, give clients and Partners competitive edge. Potomac is a mature company with an enviable 247 company clientele, profitability and positive cashflow in all but 2 years and limited only because of lack of growth capital. Accellent is a good growth and history model because of similar offerings.

## **Secure Command, LLC**

[www.securecommand.com](http://www.securecommand.com)

Fairfax, Va.

Secure Command, LLC has developed a next generation security product for protecting user workstations and servers from Internet-based attacks. Unlike current approaches to security which attempt to protect, detect, and react to Internet security threats, Secure Command products use virtualization to isolate corporate systems from the Internet, while providing Internet access through disposable operating systems created on demand, then disposed after use. The end result is the host operating system and corporate networks are isolated from Internet-based attacks, while users are still able to seamlessly connect to the Internet using standard applications without compromising their machines and their corporate networks.

## **SEQUENTRIC Energy Systems**

[www.sequentric.com](http://www.sequentric.com)

Wilmington, N.C.

Sequentric Energy Systems, LLC, has developed and is now deploying an electrical demand control technology for the electric utility companies. The technology, for which patents have been applied, helps utility companies to substantially reduce the electric demand placed on the power grid by our nation's 120 million homes. By managing a systemic inefficiency present in all homes, Sequentric's technology is proving effective in reducing peak and average electrical demand by over 50 percent and reducing monthly electric bills by as much as 40 percent. Several utility companies who provide power to over 15 million residential customers have begun looking at the Sequentric demand control technology.

## **Skyway Software**

[www.skywaysoftware.com](http://www.skywaysoftware.com)

Tampa, Fla.

Skyway Software provides technology and processes that enable IT organizations to simplify their software delivery process – reducing application development and deployment costs by 30 percent or more. Enterprises rely on Skyway Visual Workspace to facilitate collaborative development and deployment of SOA-style J2EE applications faster than ever before. Skyway Prototyping and Planning encourages developers and their customers to define requirements together through visual prototyping. Prototypes provide the basis for surprisingly accurate Planning of estimated project cost and delivery projections. Skyway Development and Deployment offers a shared workspace where developers and their customers leverage work performed by team members – located anywhere at anytime.

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## **Smart Perfusion LLC**

[www.smartperfusion.com](http://www.smartperfusion.com)

Greensboro, N.C.

Smart Perfusion LLC designs and manufactures life saving and life enabling organ transplant technology. The company's breakthrough, patented technology solves a problem that has plagued surgeons and physicians for more than 30-years. Currently, more than 71,000 people are on the U.S. kidney transplant wait list; less than 17,000 will receive transplants in 2007. And this tragic supply/demand gap is growing each year.

## **Specialty Wood Components**

Raleigh, N.C.

Specialty Wood Components (SWC) is a clean tech company targeting the "green" building materials market segment. SWC is commercializing a chemical-free, non-additive patented process to combine extreme temperatures and compression to dramatically increase the strength, hardness, dimensional stability, and resistance to decay/rot/insects of wood. SWC is initially focusing products in the \$5 billion annual decking market by offering an alternative to decking treated with chemicals or additives. This patented process also provides a completely "green" alternative to composite lumber decking. As a result, wood product companies adopting the process are able to use less expensive and more abundant raw materials (e.g. pine, spruce, fir, birch) in lieu of more expensive (e.g. oak, cherry) and/or exotic woods (e.g. ipe, teak).

## **TIRF Technologies Inc.**

[www.tirftechnologies.com](http://www.tirftechnologies.com)

Morrisville, N.C.

TIRF Technologies has developed advanced biodetection platform technology for biodefense, biomedical, food analysis, forensic and other applications. In contrast to traditional methods, TIRF biosensors are rapid, accurate, supersensitive, and have negligibly small probabilities of false positive and false negative responses. In 2006, London Business School selected TIRF Technologies as one of the finalists of Global Security Challenge – the world-wide contest of emerging anti-terrorism technologies. The Federal government awarded to TIRF Technologies \$5.4 million in R&D grants. The company has developed analytical grade TIRF instruments and biosensors and sold over a hundred TIRF devices to academic and pharmaceutical research groups. Currently TIRF Technologies is downsizing TIRF biosensors to a handheld device for point-of-care use. The company also develops reagentless fluorescence assays for detection of DNA and proteins and is on the verge of marketing the portable, fully autonomous TIRF biosensor for biodefense and biomedical applications.

## **University of North Carolina at Chapel Hill**

Chapel Hill, N.C.

UNC professors John Clarke, in radiology, and Russell Taylor and former graduate student David Borland (now at RENCI, UNC) in computer science, invented a non-invasive diagnostic technique that enables a radiologist to view 3-dimensional reconstructions of medical data sets (CT and MR). This patent-pending imaging technology allows for novel views of areas of interest that cannot be obtained from traditional invasive arthroscopic techniques. The software has been integrated with major medical imaging platform and devices to conduct further testing and validation in clinical settings.

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**Yap Inc.**

[www.yapme.com](http://www.yapme.com)

Charlotte, N.C.

Yap is an automated platform for converting what you say into text without using humans on the back end to transcribe and only takes seconds. This is why Yap was selected as a TechCrunch20 finalist and is considered one of today's leading innovations. Yap wants to be the single point for unifying the mobile web and have the in-house skills to make this happen. Yap team members have previously worked on market leading consumer products such as the Apple iPod, RIM BlackBerry, and Honda's in-vehicle navigational system.

**Zua Scene**

[www.zuascene.com](http://www.zuascene.com)

Glen Allen, Va.

Zua Scene has developed the Interlocking Search Service, which allows knowledge workers to create situational applications for data visibility. Users collaborate through building unique views from a variety of data services on-the-fly, tagging and sharing those views with peers without extensive data integration or custom data repositories typical of today's business intelligence solutions.

**Zylaya Corporation**

[www.zylaya.com](http://www.zylaya.com)

Gaithersburg, Md.

Zylaya delivers the first and only truly integrated, wireless campus security and emergency notification solution for colleges, hospitals, schools, and corporations. The company's flagship product, the Zylaya Emergency Notification System (ZENS™), utilizes a wireless mesh network as a communications backbone. Mobile devices communicate through this two-way network with a sophisticated software management system. Mobile devices include public displays, personal display devices with panic alarms, asset trackers and visitor badges. ZENS uses a proprietary location tracking scheme to pinpoint the location of assets, critical personnel, and people in need of assistance.

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