

## 3D Printing, the Disruptive Technology for World Manufacturing has a New Patent Granted to Renowned Inventor Donald Spector

Future customized orthotics will be produced quickly and at low cost



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NEW YORK, Nov. 22, 2013 /PRNewswire/ -- Lisa Pamintuan, President of New York College of Health Professions announces the issuance of US Patent #8,583,272 by the United States Patent and Trademark Office. This new patent will not only change the cost curve for customized orthotic and orthopedic inserts, but will also make inserts available to millions of people and may prevent back hip, knee and foot problems in later life.

Donald Spector, Chairman of New York College of Health Professions and one of the most prolific inventors in the world, has patented a system whereby 3D scanners and printers can analyze skeletal structures and produce customized orthopedic inserts to correct postural problems in minutes for a fraction of the price of traditional orthopedic inserts.

"Orthopedic inserts have traditionally been made by casting which takes weeks and costs hundreds of dollars, thereby often preventing access to such treatments for many," said President Pamintuan. "Most people use over-the-counter insoles that don't take into account the compensation and bending of the spine to create equal pressure in the feet."

Pamintuan, who was a tennis professional and played at Wimbledon and the US Open was injured during her career. "These technologies will be great for athletes at all levels as well as the general population. With an aging population, chronic pain problems are increasing."

Wake Forest Innovations - the commercialization enterprise of Wake Forest Baptist Medical Center, New York Medical College and Touro University have signed Memorandums of Understanding this year with New York College of Health Professions

for mutual technology development. Other major universities and medical centers and major corporations are discussing long term development of New York College's world class patent portfolio, which has been donated to the institution from its Chairman under the Intellectual Property policy and contract of the College.

Don Spector, introduced the first hydraulic exerciser, the MuscleWorker, through a license with AMF and was the inventor of the first electronic air freshening system, the Aroma Disc, after which Bristol-Myers Squibb set up a separate company for his inventions. Spector has also opened up multi-billion dollar industries in many other areas of consumer products, as well as being the author of the earliest known patents for location-based advertising that is the underpinning for one of the leading smartphone apps in the world.

New York College is now packaging a new Visions Portfolio with major companies that will include a think-tank of some of the most respected scientists and businesspeople in the world. They will work with the universities and corporations in what promises to be a public service to the community as well as a strong economic driver for the future.

#### **ABOUT NEW YORK COLLEGE OF HEALTH PROFESSIONS**

Chartered by the New York State Board of Regents, New York College of Health Professions, a not-for-profit institution located in Syosset, Long Island, with three additional sites in New York City, offers institutionally accredited undergraduate and graduate-level degree programs in Massage Therapy, Acupuncture, Oriental Medicine and Herbal Medicine, and Certificate programs in Holistic Nursing for Registered Nurses and The Science of Self Improvement. New York College maintains a 30-acre modern medical facility in Luo Yang, The People's Republic of China. The College has grown remarkably in the past several years and will continue to develop new educational programs as well as expand into many new areas. For more information about New York College of Health Professions visit [www.nycollege.edu](http://www.nycollege.edu).

#### **ABOUT WAKE FOREST INNOVATIONS**

Wake Forest Innovations ([WakeForestInnovations.com](http://WakeForestInnovations.com)) is the commercialization enterprise of Wake Forest Baptist Medical Center, a fully integrated, internationally recognized academic medical center. Located in the Wake Forest Innovation Quarter ([WakeForestInnovationQuarter.com](http://WakeForestInnovationQuarter.com)) in Winston-Salem, N.C., Wake Forest Innovations establishes and manages new business and partnerships based on the innovative products and services that arise from ideas, discoveries and the scientific research



assets of the Medical Center and Wake Forest University. The enterprise's core services include: Product Innovation & Commercialization Services - to stimulate the creation of innovation technology, products and services, and to license these to existing and start-up companies; Scientific Business Services - to structure, promote and contract the scientific research assets of the Medical Center and Wake Forest University to partners under competitive terms; and Innovation Quarter Services - to develop the Wake Forest Innovation Quarter as a hub for innovation in biomedical science, materials science and information technology.

### **ABOUT THE TOURO COLLEGE AND UNIVERSITY SYSTEM**

Touro is a system of non-profit institutions of higher and professional education. Touro College was chartered in 1970 primarily to enrich the Jewish heritage, and to serve the larger American and global community. Approximately 19,000 students are currently enrolled in its various schools and divisions. Touro College has branch campuses, locations and instructional sites in the New York area, as well as branch campuses and programs in Berlin, Jerusalem, Moscow, Paris and Florida. New York Medical College, Touro University California and its Nevada branch campus, as well as Touro University Worldwide and its Touro College Los Angeles division are separately accredited institutions within the Touro College and University System. For further information on Touro College, please go to: <http://www.touro.edu/news/>.

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