

# CVIP Newsletter

March 28, 2006

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## Greetings!

The first of many to come, this newsletter serves to provide you with information about UML's [Commercial Ventures and Intellectual Property](#) (CVIP). We will be sending an issue on a quarterly basis to give you an update on the landscape of UML patents that were filed by our faculty, licensing opportunities, potential company sponsorships, faculty profiles, technology highlights, commercial ventures development and more. Since this is our first issue, please let us know if you have any specific information you would like us to cover.



Susu Wong, Paul Wormser & Lou Petrovic

## Useful Links

Did you know the  
CVIP web site has a  
Faculty Inventors  
section?  
Hot off the Press:  
UML Technologies  
Search Engine:  
Where can I find  
the Invention Disclosure  
Form?  
New Invention  
Disclosure Form for  
Software

## New Patents Issued to UML

Congratulations to **Drs. Rajesh Kumar, Virinder Singh Parmar, Art Watterson, Jayant Kumar and Lynne Samuelson** whose invention for "Enzymatic Synthesis of Polymers" received a US patent on Nov. 8, 2005, patent number ([6,962,963](#)).

Congratulations to **Drs. Samson Mil'shtein and Joel Therrien**, whose invention "Method of Correlation of Images in Biometric Applications" was awarded a U.S. patent on Nov. 1, 2005, patent number ([6,961,449](#)).

## Entrepreneurship Links

## New Patents Pending

UMass filed six provisional patent applications at the

Merrimack Valley  
Venture Forum (MVVF) -  
Monthly Forum  
128 Innovation  
Capital Group - Monthly  
Forum  
MIT Enterprise  
Forum  
Marine and  
Ocean Sciences  
Conference

#### Events

The 9th Annual  
NSTI Nanotech 2006  
MIT Ignite Clean  
Energy Business Plan  
Competition  
MTTC Early Stage  
Life-Sciences  
Technology Conference  
II  
Invention to  
Venture Life Sciences  
2006  
North Shore  
Technology Council  
Breakfast Meeting

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end of 2005. Congratulations to the following researchers for their contributions.

1. UML 04-23: "Nanostructure Featuring Grafted Polymers" by Drs. Long Chiang, Prashant A. Padmawar and Taizoon Canteenwala.
2. UML 05-06: "Compositions And Methods For Making And Using Nanoemulsions" by Drs. Robert Nicolosi, Thomas Wilson and Robert Fisher.
3. UML 05-17: "Nanoemulsions Encapsulate Anti-Oxidant Synergy Formulation (ASF) for Cancer Therapy" also by Dr. Robert Nicolosi.
4. UML 05-20: "Electrostatically Addressable Templates" by Drs. Carol M. F. Barry, Joey Mead, Ming Wei and Ahmed Busnaina (Northeastern University).
5. UML 06-01: "Method of Patterning Periodic Nanoarrays" by Drs. Jayant Kumar, Myunghwan Kim, Lynne A. Samuelson and Ke Yang.
6. UML 06-06: "Photo-induced Copolymer Functionalized Textiles" by Drs. John Warner and Kevin Dye.

#### UML spin-off is taking off to higher grounds

[Polnox Corporation](#)® is a UML spin-off that is based on a novel macromolecular antioxidant technology developed by Dr. Ashok Cholli. Since 2001, Dr. Cholli and his research team in [Center for Advanced Materials](#) at UML have developed a new class of novel high performance antioxidant material. In December 2003, [Navigator Technology Ventures](#) (NTVEN), a



subsidiary of Draper Laboratory, provided initial venture funding and incorporated the technology into Polnox Corporation, now located in the Technology Commercialization Center (formerly the IPI at Scopus Building) in Lowell, MA.

Today, along with NTVEN, [Massachusetts Technology and Development Corporation](#) (MTDC) and [Common Angels](#) are among the other leading investors that are supporting Polnox.

Since the inception of Polnox, the company has made significant progress in developing a new class of industrial antioxidants to protect a wide range of

materials from thermo-oxidative degradation processes. With such a novel eco-friendly technology, Polnox is positioning itself as a partner for Fortune 500 manufacturing companies from the plastics, lubricants, fuels, processed foods and oils

[Polnox Corporation](#)

### EMS WebWare's newest customer



**The MBTA is on track with our environment!**

In 2005 UMass Lowell commercialized [EMS WebWare™](#), a web-based software application designed to help companies implement their environmental management systems. The software was developed by Richard Lemoine, Director of EHS, and several computer science MS level students of UML.

Since its initial launch in February, 2005 EMS WebWare has released a major revision and has made inroads into the education and government sectors, including Yale University and Montclair University. Both universities purchased the software through a matching grant program, generously provided by [Triumvirate](#)

[In February of 2006, the MBTA](#) purchased the software and environmental consulting services for all of their locations. "This is a great investment for the T," said MBTA General Manager Daniel A. Grabauskas. "This new software will enhance our environmental operations allowing us to operate more

[EMS WebWare](#)

### CVIP Office is Webinized!

In 2005, CVIP began moving documentation into the 21st Century by migrating all the paper files into a searchable web-based application. On average our office manages over 100 active dockets; along with that comes stacks of paperwork from invention disclosures, patent applications, invoices to legal correspondences. With the help of a MS level computer science student, Tejas Natu, and the rest of the CVIP

team, we have developed a web database that helps to organize all the documents into one centralized application.

The IP Database is not only used internally -- we have also built a [Technologies Search Engine](#) for prospective licensees who want to search for available technologies. Nearly 80% of all records are now on-line; we anticipate completion by mid-April.

CVIP is also integrating the technologies database with a new Massachusetts-wide Intellectual Property Portal. This new portal enables anybody to search all technologies from participating MA-based universities. The MA IP Portal is sponsored by UMass, the [Massachusetts Technology Transfer Center](#) (MTTC) and multiple Universities in the area. The portal is slated to be launched shortly, so stay tuned. The IP database helps reduce the amount of paperwork and streamline our access to key documents, now all our information is only a key stroke away.

#### [CVIP Technologies Search Engine](#)

### Growing Entrepreneurship in the Commonwealth

#### Invention 2 Venture Bootcamp

On February 24, over 80 students, faculty and entrepreneurs gathered to learn from experts. The theme of the day was commercializing clean energy technologies. After a welcome from Provost Wooding, the day began with a personal story about becoming an entrepreneur, given by Dr. Russ Gaudiana, Vice President for Research at [Konarka](#), a UMass Lowell spin-out. The audience was then treated to a series of expert panelists covering such topics as *accelerating revenue*, *preparing the perfect business plan* and *what venture capitalists look for*. Over lunch, we all enjoyed an inspiring discussion of the global energy situation and the need to deploy more clean energy technologies from renowned architect Steven Strong.

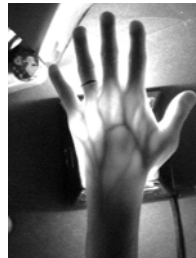
Several of our colleagues were among the speakers -- Valerie Kijewski, Beebe Nelson and Shiela Webber from the College of Management, and Lou Petrovic from CVIP.

The event was presented with the [National Collegiate](#)

[Inventors & Innovators Alliance](#), in partnership with the [Massachusetts Technology Transfer Center](#), the [Merrimack Valley Venture Forum](#) and the [MIT Enterprise Forum's](#) Ignite Clean Energy business plan competition and sponsored by the [Massachusetts Technology Collaborative](#) and [Nutter McLennan and Fish, LLP](#). The Lowell Sun covered the event as the lead story of the Business Section of the Sunday paper on February 26. The next [Invention 2 Venture for Life Sciences](#) event will be held on April 4, 2006 at the Harvard Medical School.

### The UMass Commercialization Lab

#### Teaching Graduate Students how to launch New Business Ventures



With the start of the January term, stage two of the new [UMass Commercialization Lab](#) (UMCL) has begun. In stage one, last fall, students in the MBA program's capstone course developed commercialization strategies for new technologies while doctoral students learned about starting new business ventures. Together in stage two, the students will strive to create an investable entity based on a UML patent pending medical imaging technology. Invented by Prof. Samson Mil'shtein, the invention uses a safe infrared light source and camera to provide a real-time continuous image of bones and tissues. The students will follow a stage-gate process to concurrently develop both the business and the technology, reporting to a virtual board of directors throughout the term. Market opportunities may include introducing the low-cost technology to health clinics in developing nations as a diagnostic tool, or to veterinarians to ensure proper repositioning of broken bones.

The students are led by College of Management professor and Co-Director of the UMCL, [Dr. Valerie Kijewski](#), along with a team of faculty, staff and industry experts. The imaging project received funding from the [National Collegiate Inventors and Innovators Alliance](#) (NCIIA).

Graduate students who want to learn more or enroll in Lab courses are encouraged to contact Professor Kijewski or Paul Wormser. Note - this program is also offered as a University Certificate Program, "New

Venture Creation."

[UMass Commercialization Lab](#)

### **CVIP relocating to the Technology Commercialization Center**

The CVIP is planning to relocate to the Technology Commercialization Center (formerly the IPI at the Scopus Building) this year when construction is completed. Construction started in January and renovation is underway to combine both CVIP, CVD and the Commercialization Lab into the same location. Another reason for the move is due to the lack of laboratory space that some of our technology incubators may need, and the office space at Wannalancit Mills is not set up for scientific research.

"A lot of the inventions are coming from nanotechnology, chemistry, bio-engineering and medical devices. Right now it is not possible to incubate these technologies at Wannalancit due to its historical infrastructure", says Lou Petrovic, Director of CVIP. "The new nanomanufacturing building would not be available for sometime, but meanwhile we will use the Technology Commercialization Center as the incubator while waiting for the building to break ground". More to come in our next quarterly newsletter.

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CVIP is the commercial arm of UMass Lowell and its mission is to turn our great research into innovative technologies and move them into the marketplace ranging from start-ups to Fortune 500 companies.

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