

# The SEAL Times

*The Official Newsletter of the Sensors, Energy and Automation Lab  
Electrical Engineering Department, University of Washington, Seattle, WA  
March 1<sup>st</sup>, 2004*

## ➤ Highlight of the month

– MEMS-scale corona air pump fabricated and ready for testing!



The first batch of micro-scale corona air pumps, each the size of a pea, was fabricated successfully last month here at SEAL. The proud designer behind these MEMS devices are graduate student Nels Jewell-Larsen (left) and his undergraduate assistant Sam Larson (right). This is a dream-come-true for Nels, who has been waiting for this moment for two years. However, the judgment day is yet to come. The corona air pumps are no pump if they can not actually move air. Subsequent air flow experiment will soon put the tiny pumps to test. Both Nels and Sam are confident, however, that their efforts won't go wasted. No matter what the result of the testing is, they believe they are one step closer to their final goal.

## ➤ New on SEAL internal

- [Salsa dancing - yet another hidden talent of Ryan's revealed!](#) – When was the last time you had this many sorority girls screaming at you, buddy? Don't be frustrated. It's never too old to learn salsa! Register for a salsa class with Xiaobei Li NOW! Special discount for SEAL members at only \$ 50 per hour! Possible guest appearance of Ryan Wistort who will share with us his fascinating experience at Mr. Greek.

- [Recap of SEAL 2004 ski trip](#) – Selected pictures from last month's ski trip.
- [SEAL Graduate Student Journal Club Presentation on March 12th by Min Wang](#) – Min will present a paper on RF ID which is related to his work at Intel.
- [New on SEAL internal: tips on presentations!](#) – Collections of links on public speaking, classroom and other oral presentation skills useful for both faculty and students.

## ➤ Awards

*Another sweeping victory at EEIC's poster event earned SEAL members the luxurious prospect of an Alex that was actually HAPPY! Yes, it only last a few days before somebody upset him again, but we still appreciated it. Thank you Nels, Sam, Min, Gabe, Alanson, Ryan, Anna, and Brian!*

- **Nels Jewell Larsen and Sam Larson** – 1st place in the EEIC poster contest graduate category.
- **Min Wang and Gabe Rowe** - 2nd place in the EEIC poster contest graduate category.
- **Alanson P. Sample and Ryan Wistort** – 1st place in the EEIC poster contest undergraduate category.
- **Anna, Brian, and several non-SEAL co-authors** – 3rd place, class category.

## ➤ Scholarship and Award Alert

- **Convergence Fellowship** – **deadline 03/15/04** <http://ewh.ieee.org/soc/vts/awards/convfel.pdf>
- **Gates Millennium Scholars Program** – **deadline 03/15/04** US citizen only; minimum GPA 3.3; need based <http://www.gmsp.org/main.cfm>
- **UWEE Undergraduate Research Funding** – **deadline 03/23/04** 6 pages proposal required <http://www.ee.washington.edu/research/undergrad/>
- **Mortar Board Alumni Scholarships Contest** – **deadline 03/27/04** Available for UW students not graduating the next school year.
- **Intel Student Research Contest** – **deadline 03/30/04** Minimum GPA 3.0; Age 18 or above. **Deadline for complete entry May 30<sup>th</sup>.** **Individual entry only (No teams allowed).** <http://www.intel.com/research/awards/unitedstates.htm>

- **EEIC and Grainger Undergraduate Scholarship**  
 – **deadline 03/31/04** available for junior and seniors majoring in power engineering who have completed EE351  
<http://www.ee.washington.edu/energy/apt/grainger.html>
- **Mary Gates Undergraduate Research Grant** –  
**deadline 04/10/04** [www.washington.edu/oue/mge](http://www.washington.edu/oue/mge)

➤ Life at SEAL

**Weapons of mass destruction – secret dealings caught on surveillance camera!!!**



Terrorism is everywhere in this country, and one can never be too careful about it. At 10:53 pm, Feb 20<sup>th</sup>, 2004, Kishore Sundara Rajan’s clandestine dealings of dangerous weapons were inadvertently captured by the SEAL security camera. In spite of the overwhelming evidence, he denies any responsibility for this incident. He even thinks he could fool people by shaving off his beard and changing his name into Tony!!! He is not only inexperienced but also naïve, a ‘small time crook’ at best.

Kishore’s motive for betraying the lab is yet unclear. In the mean time to tighten the security around SEAL, I suggest that fingerprints be collected from every one upon entering the lab. We will not rest in peace until the seeds of terrorism are completely eradicated from this land!

**Side career as an opera singer???**



**Ava  
 Mariaaaaaa**  
 .....

Ryan Wistort is not the only one blessed with an artistic touch. Gabe Rowe, reluctant to let his musical talent go waste, managed to find time to hone his opera singing skills at a SEAL grad student meeting. His powerful presence resembles that of Luciano Pavarotti, his calm demeanor that of Andrea Bocelli. Even the most musically uninitiated can not fail to recognize his genuine talent.