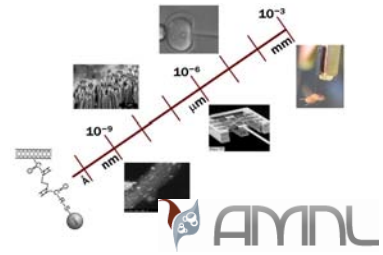


Event Archives

Lab: Advanced Micro and Nanosystems Lab
<http://amnl.mie.utoronto.ca>



AMNL won the Best Paper in Robotics Award at IEEE International Conference on Information and Automation (IEEE ICIA'2016) in Ningbo, China. (08/2016)

Y. Sun gave plenary talks at Optofluidics'16 and OCSMNT-MAN'16 in Beijing. (07/2016)

AMNL hosted lab visits by JiuYou Capital from Shanghai and the Consulate General of China in Toronto. (06/2016)

Y. Sun gave a keynote talk at IEEE ICRA'16 in Stockholm, Sweden. (05/2016)

Y. Sun gave an invited seminar in the Institute of FUNSOM at Soochow University. (04/2016)

AMNL welcomes 4 new graduate students and 1 postdoc to join our team. (03/2016)

AMNL hosted a lab tour by an international media group invited by the Ontario Ministry of Economic Development, Employment and Infrastructure. (02/2016)

AMNL presented three papers at IEEE MEMS'16. (01/2016)

Y. Sun gave an invited seminar at Purdue University. (12/2015)

Y. Sun gave an invited seminar at the University of Wisconsin - Madison. (11/2015)

J. Liu received a prestigious Ted Rogers Centre for Heart Research Education Fund Award. (10/2015)

C.H. Cao's Nano Letters paper was accepted. (09/2015)

Y. Sun spoke at the 2015 Microsystems & Nanoengineering Summit in Beijing. (08/2015)

Collaborative paper with Prof. Anthony Gramolini's group was accepted by Nature Communications. (07/2015)

Yuan Wei successfully defended his thesis. (06/2015)

AMNL presented papers at IEEE ICRA'15 in Seattle. (05/2015)

Y. Sun gave an invited seminar at UCLA. (04/2015)

Nature Cell Biology paper reports effects of physical force on cell remodeling. (03/2015)

Y. Zheng was awarded a prestigious NSERC postdoctoral fellowship. (02/2015)

AMNL presented papers at IEEE MEMS'15 in Estoril, Portugal. (01/2015)

Y. Sun was elected Fellow of IEEE. (12/2014)

AMNL presented papers at IEEE MEMS'15 in Estoril, Portugal. (01/2015)

Y. Sun was elected Fellow of IEEE. (12/2014)

Y. Sun gave an invited talk at the [DGIST Global Innovation Festival](#) in Daegu, Korea. (11/2014)

AMNL presented papers at [MicroTAS'14](#) in San Antonio. (10/2014)

Y. Sun gave an invited keynote talk at 2014 International Conference on Functional Materials in Shanghai. (09/2014)

Y. Zheng completed his Ph.D. defense. We trust Yi will continue to excel at U. Michigan. (08/2014)

Y. Sun gave a plenary talk at World Congress on Intelligent Control and Automation (WCICA'2014). (07/2014)

AMNL presented papers at [IEEE ICRA'14](#) in Hong Kong. Jun Liu's paper received the Best Student Paper Award. (06/2014)

Brandon Chen gave live demos of our nanomanipulation system under SEM at Georgia Tech. Y. Sun spoke at Georgia Tech in Atlanta. (05/2014)

Y. Sun was elected into the Canadian Academy of Engineering (CAE). (04/2014)

Y. Sun gave an invited seminar in Dept. Biomedical Engineering at Ohio State University. (03/2014)

AMNL received UofT's Connaught Innovation Award. (02/2014)

J. Liu and Y. Zheng presented at [IEEE MEMS'14](#) in San Francisco. (01/2014)

Y. Sun gave a plenary talk at [IEEE Robio'13](#) in Shenzhen, China. (12/2013)

The new S4800 scanning electron microscope, supporting our nanorobotic manipulation research, is up running. (11/2013)

Derek Pyne presented at MicroTAS'13 in Freiburg, Germany. (10/2013)

Brandon Chen completed his Ph.D. defense. Alumnus, Dr. Chris Moraes officially accepted a faculty position from McGill University. (09/2013)

Y. Sun gave a keynote talk at [3M-Nano'13](#) in Suzhou, China. (08/2013)

Luke MacQueen completed his postdoctoral research in our group and joined Kit Parker's group at Harvard University. (07/2013)

Y. Sun gave an invited talk at [Transducers'13](#) in Barcelona, Spain. (06/2013)

AMNL presented at [IEEE ICRA'13](#) in Karlsruhe, Germany. (05/2013)

Mark Cachia and Yuan Wei received NSERC Scholarships. (04/2013)

Y. Sun was elected Fellow of The Engineering Institute of Canada (EIC). (03/2013)

Chris Moraes and Y. Sun attended NSERC awards ceremony celebrating Canada's Top Natural Sciences and Engineering Researchers in Ottawa. (02/2013)

Y. Zheng presented at [IEEE MEMS'13](#) in Taipei. (01/2013)

Y. Sun gave an invited seminar in Mechanical Engineering, Univ. of Minnesota. (12/2012)

AMNL received a 2013 Connaught Innovation Award from UofT. (12/2012)

Our alumnus, Dr. Keekyoung Kim has accepted an offer to start a faculty position at the Univ. of British Columbia - Okanagan. (11/2012)

Our alumnus, Prof. Xinyu Liu received CMC's Douglas R. Colton Medal for his research at AMNL. (10/2012)

Y. Sun attended the Technical Program Committee meeting of IEEE MEMS'13 in Kyoto, Japan. (10/2012)

Our alumnus, Dr. Chris Moraes received Canada's most prestigious postdoctoral fellowship, the Banting Fellowship. (09/2012)

Y. Sun gave an invited key-note presentation at [3M-Nano](#) in Xi'an. (08/2012)

Y. Sun was invited to join the editorial board of IEEE ICRA as an Editor. (07/2012)

AMNL presented two papers at [ISER'12](#) in Québec City. (06/2012)

AMNL presented three papers at [IEEE ICRA'12](#), and Y. Sun gave a seminar talk in the Biomedical Engineering Dept. of U. Minnesota. (05/2012)

Y. Sun gave an invited talk at McGill Univ. (04/2012)

AMNL was awarded a grant for adding a confocal microscope to our AFM system. (03/2012)

Y. Sun gave an invited talk in the Dept. of Chemical and Biological Engineering at SUNY Buffalo. (02/2012)

Y. Sun gave an invited talk at U. of Western Ontario. (01/2012)

AMNL won UofT's Connaught Innovation Award. (12/2011)

Our robotic ICSI technology created the first human fertilization. (11/2011)

AMNL presented three papers at [MicroTAS'11](#) in Seattle. (10/2011)

Y. Sun gave an invited keynote talk in the '50 years of vision symp.' at [IEEE IROS'11](#) in San Francisco. (9/2011)

AMNL won the Best Application Paper Award at the [3M-Nano Int'l Conf.](#) in Changchun, China. (8/2011)

AMNL's paper on nanowire biosensors was accepted for publication by [ACS Nano](#). (7/2011)

AMNL presented five papers at [Transducers'11](#) in Beijing. (6/2011)

AMNL won the Best Automation Paper Award at [IEEE ICRA'11](#). (5/2011)

Y. Sun gave invited talks at Harvard University and at [NY LRIG](#) in Albany, New York. (4/2011)

Y. Sun gave two invited talks at the U. of Washington in Seattle. (03/2011)

Y. Sun attended the [Transducers'11](#) Executive Program Sub-Committee meeting in Beijing. (02/2011)

AMNL presented two papers at [IEEE MEMS](#) in Cancun, Mexico. (01/2011)

Y. Sun gave an invited talk in the [Global COE Program](#), Nagoya University, Japan. (12/2010)

AMNL spoke at [IEEE Sensors'10](#) in Hawaii. (11/2010)

AMNL presented two papers at [MicroTAS'10](#) in Groningen, Netherlands. (10/2010)

Y. Sun gave an invited seminar talk in the Robotics Inst. at Carnegie Mellon University. (09/2010)

C. Leung was selected as a Society for Laboratory Automation and Screening Young Scientist Award Finalist at [the 6th IEEE Intl. CASE Conf.](#) (08/2010)

Y. Sun spoke at Beijing University and the Inst. Automation, Chinese Academy of Sciences. (07/2010)

AMNL spoke at U. of Tokyo and Hitachi Inc. in Japan; and presented at [Hilton Head Workshop](#) in SC. (06/2010)

AMNL presented at [IEEE ICRA](#) and also gave two invited workshop talks. (05/2010)

Y. Sun gave seminar talks at Ryerson University, Cornell University, and U. of Minnesota. (04/2010)

Y. Sun was invited to join the Executive Technical Program Committee of [Transducers' 2011](#). (03/2010)

Y. Sun joined the editorial board of [Micro & Nano Letters](#). (02/2010)

AMNL presented three papers at [IEEE MEMS](#) in Hong Kong. (01/2010)

AMNL won the Award of Best Paper in Clinical Research at the 2009 CFAS Annual Conf. (12/2009)

AMNL presented three papers at MicroTAS in Jeju, Korea. (11/2009)

Y. Sun was appointed Technical Editor of [IEEE Trans. Mechatronics](#). (10/2009)

X.Y. Liu started postdoctoral research at Harvard University. (09/2009)

Y. Sun gave an invited IEEE seminar at Rutgers University. (09/2009)

AMNL was awarded the First Prize for Technical Achievement in Video by [ASRM](#). (07/2009)

AMNL acknowledges a generous donation from 91-year-old MIE alumnus, Mr. Andrew Zakrzewski. (06/2009)

AMNL gave three oral presentations at [Transducers](#) in Denver. (06/2009)

Y. Sun spoke at University of Tokyo and Hitachi Inc. (05/2009)

AMNL presented three papers at [IEEE ICRA](#) in Kobe, Japan. (05/2009)

AMNL presented at [MMB](#) in Quebec City. (04/2009)

[Seagate Technology](#) in Minneapolis came up to visit AMNL. (02/2009)

Y. Sun was elected Fellow of [CSME](#). (01/2009)

AMNL completed lab expansion/renovation. (12/2008)

K.Y. Kim passed his final Ph.D. defense and started postdoctoral research at Stanford Univ. (11/2008)

C. Moraes gave a talk at [Biomedical Engineering Society Annual Meeting](#) in St. Louis, MO. (10/2008)

IEEE approved of holding 2010 IEEE Intl. Conf. Automation Sci. Eng. in Toronto. (08/2008)

Y. Sun spoke at Int. Symp. Experimental Robotics (ISER) in Athens, Greece. (07/2008)

Y. Sun spoke at Robotics: Science and Systems Conference (RSS) in Zurich, Switzerland. (06/2008)

C. Moraes spoke at [World Biomaterials Congress](#) in Amsterdam, The Netherlands. (05/2008)

AMNL presented three papers at IEEE Int. Conf. Robotics Automation (ICRA) in Pasadena, California. Y. Sun spoke at UCLA. (05/2008)

Y. Sun gave an invited talk at World's Best Technologies Showcase in Arlington, Texas. (03/2008)

J.H. Tong joined the faculty of the [Inst. of Electronics, Chinese Academy of Sciences](#) in Beijing, China as an associate professor. (03/2008)

C. Moraes gave a talk on high-throughput micro devices to evaluate cellular response to mechanical stimulation at the [26th Conf. of the Society for Physical Regulation in Biology and Medicine](#) in Miami, Florida. (01/2008)

K.Y. Kim presented an AMNL paper at [IEEE International Conf. Micro Electro Mechanical Systems](#) (IEEE MEMS'08) in Tucson, Arizona. (01/2008)

Y. Sun was appointed by the IEEE as an Associate Editor of the [IEEE Trans. Automation Science and Engineering](#). (12/2007)

Y. Sun was invited by [Annual Review of Biomedical Engineering](#) to contribute a review article on "Microengineered platforms for cell mechanobiology". (12/2007)

W.H. Wang joined the faculty of the [University of Canterbury](#) in New Zealand as an assistant professor. AMNL wishes Dr. Wang continued success in his future endeavors. (10/2007)

C. Moraes presented an AMNL paper at the [International Conference on Miniaturized Systems for Chemistry and Life Sciences](#) (MicroTAS'07) in Paris, France. (10/2007)

AMNL paper "Autonomous zebrafish embryo injection using a microrobotic system" received the Best Conference Paper Award at [IEEE 2007 International Conf. Automation Science and Engineering](#) (CASE'07) in Arizona. (09/2007)

AMNL paper "A millimeter-sized nanomanipulator with sub-nanometer positioning resolution and large force output" was selected by Smart Materials and Structures as a [2007 Featured Article](#). (09/2007)

Y. Sun presented three AMNL papers at [IEEE International Conf. Nanotechnology](#) in Hong Kong and a seminar talk at the [Institute of Automation, Chinese Academy of Sciences](#) in Beijing. (08/2007)

AMNL paper "Vision-based cellular force measurement using an elastic microfabricated device" was selected by J. of Micromechanics and Microengineering as a [2007 Featured Article](#). (07/2007)

Invited by [ECTI](#), AMNL published an article entitled "[Manipulating nanomaterials for NEMS construction](#)" in the ECTI Newsletter. (07/2007)

Y. Sun spoke at [Ontario-on-a-Chip](#) at Toronto and at [Nanoforum Canada](#) at Waterloo, and gives an IEEE seminar talk at the [University of Waterloo](#). (06/2007)

K.Y. Kim presented an AMNL paper at the 21st [Canadian Congress of Applied Mechanics](#) in Toronto. (06/2007)

W.H. Wang gave an invited talk "Microrobotic Manipulation of Biological Cells and Organisms" at the [University of Canterbury](#) in New Zealand. (05/2007)

X.Y. Liu presented an AMNL paper, as a Best Student Paper Award Finalist, at [IEEE International Conf. Robotics and Automation](#) (ICRA'07) in Rome, Italy. (04/2007)

C. Moraes and Y. Sun gave two invited talks at the [World's First Undergraduate Nanotechnology Conference](#) (UNC2007). (03/2007)

Y. Sun gave an invited plenary talk "[MEMS and Microrobotics for Intra-Cellular Surgery](#)" at the [Medicine Meets Virtual Reality Conference](#) in California. (02/2007)

J.H. Tong presented an AMNL paper at [IEEE International Conf. Micro Electro Mechanical Systems](#) (IEEE MEMS'07) in Kobe, Japan. (01/2007)

Invited by [CSME](#), AMNL published an article entitled "[Cell mechanics meets MEMS](#)" in the CSME Bulletin. (12/2006)

AMNL and [Innovations Foundation](#) demonstrated three AMNL's patented technologies at [Texas Nanotechnology Exposition and Conference](#). (09/2006).

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