

Assistant Professor
Dept. of NanoEngineering, Jacobs School of Engineering
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EDUCATION AND RESEARCH EXPERIENCE

- Institute of Photonic Sciences, Barcelona, Spain** June-Dec 2015
- Marie Curie Post-doctoral scholar in graphene/quantum dot hybrid devices
 - Supervisor: Gerasimos Konstantatos and Frank Koppens
- University of California, Berkeley, Physics Department /
Lawrence Berkeley National Laboratory, Materials Science Division** Since Jan 2012
- Post-doctoral researcher in solar energy conversion and 2-D atomic layered materials
 - Supervisor: Prof. Alex Zettl
- Swiss Federal Institute of Technology of Lausanne (EPFL), Switzerland** Jun 2005–Feb 2010
- Ph. D. degree in Microelectronics and Microsystems. Conferred on February 5th, 2010.
 - Thesis subject: Development of Stencil Lithography for Nanopatterning and for Electronics and Biosensing applications
 - Supervisor: Prof. Juergen Brugger
- Delft University of Technology, Delft, The Netherlands** Aug 2002–Dec 2003
- Master's Thesis in the Molecular Biophysics group
 - Thesis Subject: Scanning Probe Microscopy, Analysis and Manipulation of Ferritin Protein
 - Supervisor: Prof. Cees Dekker
- Chalmers University of Technology, Gothenburg, Sweden** Aug 2000–Jun 2003
- Master of Science in Nanoscale Science and Engineering (Thesis realized at Delft Univ. of Tech).
 - Conferred on January 28th, 2004.
- Monterrey Institute of Technology (ITESM), C. Monterrey, Mexico** Aug 1996–Dec 2001
- Bachelor's Degree in Physics, conferred on December 13th, 2001.
 - Graduated with Honorific Mention.

PROFESSIONAL EXPERIENCE

- Microresist Technologies GmbH, Berlin, Germany / EPFL Switzerland** Feb 2010 – Jul 2011
Development of Industrial Applications of Ink-Jet printing and Stencil Lithography in the frame of the Acapoly (European Union Industry and Academy Projects)
- Monterrey Institute of Technology (ITESM), C. Chiapas, Mexico** Jan 2004 – May 2005
Physics and Math Lecturer in the B.Sc. Engineering program

GRANTS AND AWARDS

- Swiss National Science Foundation Fellowship for Advanced Researchers, PA00P2-145394 (2013)
- Swiss National Science Foundation Fellowship for Prospective Researchers, PBELP2-135864 (2011)
- Best student paper at IEEE-NEMS'2008. Sanya, China (2008)
- Huygens Scholarship granted by The Netherlands Organization for International Cooperation in Higher Education (NUFFIC) for Master's thesis work at TU Delft (2002)
- STINT Scholarship granted by the Swedish Foundation for International Cooperation in Research and Higher Education (STINT) for Master's studies at Chalmers Univ. of Tech (2000)
- Graduated with Honorific Mention from B.Sc. in Physics from the Monterrey Institute of Technology (ITESM). Monterrey, Mexico (2002)
- Excellence Scholarship granted by ITESM for B. Sc. Studies (1996)

TEACHING AND EDUCATIONAL EXPERIENCE

Monterrey Institute of Technology, Campus Chiapas, Mexico High-School level lecturer. Courses: Algebra, Mechanics, Analytic Geometry	Spring 2002
Orphanage “Casa Hogar Manos Amigas”, Tuxtla Gutierrez, Chiapas, Mexico Volunteer as math teacher and tutor	Spring 2002
Monterrey Institute of Technology, Campus Chiapas, Mexico University level lecturer. Courses: Vector Calculus, Electricity and Magnetism, Mechanics High-School level lecturer. Courses: Analytic Geometry, Electricity, Mechanics, Heat	2004-2005
Monterrey Institute of Technology, Campus Chiapas, Mexico Participant in Problem-Based Learning training workshop Participant in Teaching-Based Learning training workshop	June 2004
Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland Graduate Course Teaching Assistant. Course: Nanotechnology for Engineers	2006-2008
University of California, Berkeley Coordinator of the “Educational Pipeline for Indigenous People to UC Berkeley” program, sponsored by the Vice-Chancellor of Equity and Inclusion to promote the access of indigenous students to UC Berkeley	2013-2014

MAJOR COLLABORATIONS

- **Prof. Harry Atwater**, Caltech, U.S.A., **Prof. Ali Javey**, University of California, Berkeley. Development of field-effect solar cells (2013-2014)
 - **Prof. Janos Voros**, ETHZ, Switzerland. Development of Plasmonic Biosensors based on Stencil Lithography (2010-2011)
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ACADEMY PROJECTS INVOLVED

- **Swiss National Science Foundation**: Nano-scale hybrid CMOS-SET IC architectures (*NANO-IC*) (2005)
 - **European Union FP6** - Emerging Nanopatterning Methods (*NAPA*) (2005-2007)
 - **EPFL-STI Seed Fund** - Discontinuous Meso-structures for biochemical sensing applications (2008)
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INDUSTRY/ACADEMY PROJECTS INVOLVED

- **European Union FP7**: Technology transfer of Ink-Jet patterning methods for advanced polymers at Microresist Technologies GmbH, Berlin, Germany (2010-2011)
 - **NIL Technology ApS / NITTO-DENKO Corp** : Resistless and parallel fabrication of metallic nanodots on polymers for flexible sensors (2011)
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LANGUAGES

- Spanish: Mother language
- English: Advanced
- French: Advanced
- German: Beginner A1 level

LIST OF PUBLICATIONS AND REPORTS

- A. Peer-Reviewed journal publications (25 publications, 8 as first author)
- B. Conference Contributions
- C. Thesis
- D. EPFL-CMI (Clean room) Center of Micro-Nanotechnology Reports
- E. Project Reports
- F. Science and Technology Outreach Articles

A. Peer-Reviewed Journal Publications

1. **Metal insulator semiconductor solar cell devices based on a Cu₂O substrate utilizing h-BN as an insulating and passivating layer**
Ergen Onur, Gibb A, Vazquez-Mena O, Regan W, Zettl Alex.
Applied Physics Letters, 106 (2015), pp. 103904 ([Link](#))
2. **Performance Enhancement of a Graphene-Zinc Phosphide Solar Cell using the Electric Field-Effect**
O. Vazquez-Mena, Jeffrey Bosco, O. Ergen, Haider I. Rasool, Aidin Fathalizadeh, Mahmut Tosun, Michael Crommie, Ali Javey, Harry Atwater, Alex Zettl
Nano Letters, 14 (2014), pp. 4280-4285 ([Link](#))
3. **Performance Enhancement of a Graphene-Zinc Phosphide Solar Cell using the Electric Field-Effect**
O. Vazquez-Mena, Jeffrey Bosco, O. Ergen, Haider I. Rasool, Aidin Fathalizadeh, Mahmut Tosun, Michael Crommie, Ali Javey, Harry Atwater, Alex Zettl
Nano Letters, 14 (2014), pp. 4280-4285 ([Link](#))
4. **Resistless Fabrication by Stencil Lithography: A Review**
O. Vazquez-Mena, L. Gross, S. Xie, L.G. Villanueva, J. Brugger
In Press in *Microelectronic Engineering* (2014) ([Link](#)) DOI: 10.1016/j.mee.2014.08.003
5. **Screen-Engineered Field-Effect Solar Cells**
W. Regan, S. Byrnes, W. Gannett, O. Ergen, O. Vazquez-Mena, F. Wang, A. Zettl
Nano Letters, 12 (2012), pp. 4300-4304 ([Link](#))
6. **Stencil-nanopatterned back reflectors for thin-film amorphous silicon n-i-p solar cells: plasmonic grating versus metallic grating**
C. Pahud, V. Savu, M. Klein, O. Vazquez-Mena, F.J. Haud, J. Brugger, Ch. Ballif
IEEE Journal of Photovoltaics, 3 (2013) pp. 22-26 ([Link](#))
7. **Resistless Fabrication of Nanoimprint Lithography (NIL) Stamps Using Nano-Stencil Lithography**
L.G. Villanueva, O. Vazquez-Mena, C. Martin-Olmos, V. Savu, K. Sidler, J. Brugger
Micromachines, 4 (2013) pp. 370-377 ([Link](#))
8. **High-Resolution Resistless Nanopatterning on Polymer and Flexible Substrates for Plasmonic Biosensing Using Stencil Masks**
O. Vazquez-Mena, T. Sannomiya, M. Tosun, Luis. G. Villanueva, V. Savu, J. Voros and J. Brugger
ACS Nano, 6 (2012) pp. 5474-5481 ([Link](#))
9. **All-stencil transistor fabrication on 3D silicon substrates**
G. Villanueva, O. Vazquez-Mena, C. Martin-Olmos, V. Savu, K. Sidler, J.. Montserrat, P. Langlet, C. Hibert, P. Vettiger, J. Bausells, J. Brugger
Journal of Micromechanics and Microengineering, 22 (2012) p. 095022 ([Link](#))

- 10. Facile Fabrication of Nanofluidic Diode Membranes using Anodic Aluminium Oxide**
S. Wu, F. Wildhaber, O. Vazquez-Mena, A. Bertsch, J. Brugger, P. Renaud
Nanoscale, 4 (2012) pp. 5718-5723 ([Link](#))
- 11. Metallic Nanodots by Stencil Lithography for Plasmonic Biosensing Applications**
O. Vazquez-Mena, T. Sannomiya, L. G. Villanueva, J. Voros and J. Brugger.
ACS Nano, 5 (2011) pp. 844-853 ([Link](#))
- 12. Reliable and Improved Nanoscale Stencil Lithography by Membrane Stabilization, Blurring and Clogging Corrections**
O. Vazquez-Mena, K. Sidler, V. Savu, C.W. Park, L.G. Villanueva and J. Brugger
IEEE Transactions on Nanotechnology, 8 (2010) pp. 352-357 ([Link](#))
- 13. Analysis of the Blurring in Stencil Lithography**
O. Vazquez-Mena, L.G. Villanueva, V. Savu, K. Sidler, P. Langlet and J. Brugger
Nanotechnology, 20 (2009) p.415303. ([Link](#))
- 14. Metallic Nanowires by Full Wafer Stencil Lithography**
O. Vazquez-Mena, G. Villanueva, V. Savu, K. Sidler, M.A.F. van den Boogaart and J. Brugger
Nano Letters, 8 (2008) pp. 3675-3682 ([Link](#))
- 15. Reusability of Nanostencils for the Patterning of Aluminum Nanostructures by Selective Wet Etching**
O. Vazquez-Mena, G. Villanueva, M.A.F. van den Boogaart, V. Savu and J. Brugger
Microelectronic Engineering, 85 (2008) pp. 1237-1240 ([Link](#))
- 16. Compliant membranes improve resolution in full-wafer micro/nanostencil lithography**
K. Sidler, L.G. Villanueva, O. Vazquez-Mena, V. Savu, J. Brugger.
Nanoscale, 4 (2012) pp.773-778 ([Link](#))
- 17. SiN membranes with submicrometer hole arrays patterned by wafer-scale nanosphere lithography**
M.J.K. Klein, F. Montagne, N. Blondiaux, O. Vazquez-Mena, H. Heinzlmann, R. Pugin, J. Brugger, V. Savu
Journal of Vacuum Science and Technology B, 29 (2011), p. 021012 ([Link](#))
- 18. Localized ion implantation through Micro/Nanostencil Masks**
L.G. Villanueva, C. Martin-Olmos, O. Vazquez-Mena, J. Montserrat, P. Langlet, J. Bausells, J. Brugger.
IEEE Transactions on Nanotechnology, 10 (2011) pp.940-946 ([Link](#))
- 19. Robust PECVD SiC membrane made for stencil lithography**
S.Q. Xie, V. Savu, W. Tang, O. Vazquez-Mena, K. Sidler, H.X. Zhang, J. Brugger
Microelectronic Engineering 88 (2011) pp. 2790-2793 ([Link](#))
- 20. Stencil Conducting Bismuth Nanowires**
V. Savu, S. Neuser, G. Villanueva, O. Vazquez-Mena, K. Sidler, J. Brugger
Journal of Vacuum Science and Technology B, 28 (2010) pp. 169-172 ([Link](#))
- 21. Focused Ion Beam: A Versatile Technique for the Fabrication of Nano-Devices**
Santschi, J. Przybylska, M. Guillaumee, O. Vazquez-Mena, J. Brugger and O. Martin
Praktische Metallographie – Practical Metallography, 46 (2009) pp.154-156 ([Link](#))
- 22. Resistivity Measurements of Gold Wires Fabricated by Stencil Lithography on Flexible Polymer Substrates**
K. Sidler, O. Vazquez Mena, V. Savu, G. Villanueva, M.A.F. van den Boogaart and J. Brugger
Microelectronic Engineering, 85 (2008) pp. 1108–1111. ([Link](#))
- 23. Etching of sub-micrometer structures through Stencil**
G. Villanueva, O. Vazquez-Mena, M.A.F. van den Boogaart, K. Sidler, K. Pataky, V. Savu and J. Brugger
Microelectronic Engineering, 85 (2008) pp. 1010–1014. ([Link](#))
- 24. A single nanotrench in a palladium microwire for hydrogen detection**
T. Kiefer, F. Favier, O. Vazquez, G. Villanueva and J. Brugger
Nanotechnology, 19 (2008) pp. 125502 ([Link](#))
- 25. Patterning of parallel nanobridge structures by reverse nanostencil lithography using an edge-patterned stencil**

C.W. Park, [O. Vazquez Mena](#) and J. Brugger
Nanotechnology, 18 (2007) pp. 044002 ([Link](#))

26. Reverse transfer of nanostencil patterns using intermediate sacrificial layer and lift-off process

C.W. Park, [O. Vazquez Mena](#), M.A.F. van den Boogaart and J. Brugger
Journal of Vacuum Science and Technology B, 24 (2006) pp. 2772-2775 ([Link](#))

27. Sculpting nanoelectrodes with a transmission electron beam for electrical and geometrical characterization of nanoparticles.

H.W. Zandbergen, R. van Duuren, P.F.A. Alkemade, G. Lientschnig, [O. Vasquez](#), C. Dekker, and F.D. Tichelaar
Nano Letters, 5 (2005) pp. 549-553 ([Link](#))

B. Conference Contributions

1. Improved photovoltaic performance based on graphene-semiconductor field effect solar cell

Oscar Vazquez Mena, Jeffrey Bosco, Mahmut Tosun, Haider Rasool, Aidin Fathalizadeh, Ali Javey, Harry A. Atwater, Alex Zettl. *Solution Processed Innovative Solar Cells (SPINS15)*, September 9-11, 2015, Santiago de Compostela, Spain.

2. Novel Architecture for Photovoltaic Devices: Field-effect Solar Cells Using Screening-engineered Nanoelectrodes for Silicon and Earth Abundant Cuprous Oxide

[O. Vazquez-Mena](#), W. Regan, O. Ergen, W. Gannett, S. Byrnes, F. Wang, A. Zettl ([Link](#))
Oral presentation at the 39th *IEEE Photovoltaics Specialists*, 2013. Tampa Bay, Florida, U.S.A. June 16-21, 2013

3. Stencil-Nanopatterned Back Reflectors for Thin-Film Amorphous Silicon n-i-p Solar Cells

C. Pahud, V. Savu, M. Klein, [O. Vazquez-Mena](#), K. Soderstrom, F. Haug, J. Brugger, C. Ballif
38th IEEE Photovoltaic Specialists Conference. June 2012. Austin, Texas, U.S.A. ([Link](#))

4. Bionanotechnology Applications of Stencil Lithography

[O. Vazquez-Mena](#), K. Pataky and J. Brugger.
Third International NanoBio Conference. August 2010. Zurich, Switzerland.

5. Fabrication of Metallic Nanodots by Stencil Lithography for Localized Surface Plasmon Resonance Biosensing

[O. Vazquez-Mena](#), T. Sannomiya, L. G. Villanueva, J. Voros and J. Brugger.
Functionalized Plasmonic Nanostructures for Biosensing, April 2010. Monte Verita, Ascona, Switzerland. ([Link](#))

6. Metallic Nanodot Arrays Fabricated by Stencil Lithography on SiO₂ and Polymer Substrates

[O. Vazquez-Mena](#), T. Sannomiya, L. G. Villanueva, V. Savu, K. Sidler, J. Voros and J. Brugger
EIPBN. 54th International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication. June 2010. Anchorage, U.S.A. ([Link](#))

7. Nanoporous SiN membranes patterned by wafer-scale nanosphere lithography

V. Savu, M. J. K. Klein, F. Montagne, [O. Vazquez-Mena](#), J. Brugger, H. Heinzelmann, and R. Pugin,
EIPBN. 54th International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication, June 2010. Anchorage, U.S.A. ([Link](#))

8. Analysis and Applications of Nanostructures Created by Stencil Lithography

[O. Vazquez-Mena](#), T. Sannomiya, M. Tosun, J. Voros, G. Villanueva and J. Brugger
Transducers'09, 2009. Denver, CO. U.S.A. ([Link](#))

9. Nanostencil and InkJet Printing for Bionanotechnology Applications

K. Pataky, [O. Vazquez-Mena](#) and J. Brugger
4th International ICST Conference, Nano-Net 2009. October 2009. Lucerne, Switzerland. ([Link](#))

10. Sub-100 nm-scale Aluminum Nanowires by Stencil Lithography: Fabrication and Characterization

[O. Vazquez-Mena](#), V. Savu, K. Sidler, G. Villanueva, M.A.F. van den Boogaart and J. Brugger.
IEEE-NEMS, 2008. Sanya, China. Best Student Presentation Award ([Link](#))

11. Reusability of Nanostencils for the Patterning of Aluminum Nanostructures by Selective Wet Etching

[O. Vázquez-Mena](#), G. Villanuev, M.A.F. van den Boogaart, V. Savu and J. Brugger
33rd International Conference on Micro- and Nano Engineering, 2007. Copenhagen, Denmark. ([Link](#))

- 12. Towards Reliable 100-Nanometer Scale Stencil Lithography on Full Wafer: Progress and Challenges**
O. Vazquez-Mena, M.A.F. van den Boogaart, and J. Brugger.
Transducers '07 & Eurosensors XXI, **2007**. Lyon, France. ([Link](#))
- 13. Nanostencil lithography for nanowire patterning**
O. Vazquez-Mena, C.W. Park, M. van den Boogaart and J. Brugger
Nanoelectronics Days, **2006**. Aachen, Germany.
- 14. Direct Etching of High Aspect structures through a Stencil**
 G. Villanueva, O. Vazquez-Mena, C. Hibert and J. Brugger
22nd IEEE International Conference on Micro Electro Mechanical Systems, **2009**. Sorrento, Italy. ([Link](#))
- 15. Direct fabrication of NIL stamps using Stencil Lithography**
 G. Villanueva, O. Vazquez-Mena, T. Kiefer and J. Brugger
Eurosensors XXII, **2008**. Dresden, Germany. ([Link](#))
- 16. Stencilled Conducting Bismuth Nanowires**
 V. Savu, S. Neuser, L.G. Villanueva, O. Vazquez-Mena, K. Sidler and J. Brugger
53rd International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication, **2009**.
 Marco Island, FL. U.S.A.
- 17. Minimized Blurring in Stencil Lithography using a Compliant Membrane**
 K. Sidler, G. Villanueva, O. Vazquez-Mena and J. Brugger
Transducers'09, **2009**. Denver, CO. U.S.A. ([Link](#))
- 18. Resistless ion implantation of sub-micron scale features through nano-stencil**
 G. Villanueva, C. Martin, O. Vazquez-Mena, J. Montserrat, P. Langlet, J. Bausells and J. Brugger.
34th International Conference on Micro- and Nano Engineering, **2008**. Athens, Greece. ([Link](#))
- 19. Integrated Nickel Micro-Nano-Hall Sensors on SU-8 Cantilevers for Scanning Hall Probe Microscopy**
 S. Mouaziz, C. Imboden, C. Santschi, O. Vazquez Mena, R. Popovic, J. Brugger and G. Boero
Tranducers'07. **2007**. Lyon, France. ([Link](#))
- 20. Focused Ion Beam Engineered Nanogap in a Palladium Microwire as a Mechanical Switch for Hydrogen Detection**
 T. Kiefer, F. Favier, O. Vazquez-Mena, G. Villanueva and J. Brugger
33th International Conference on Micro- and Nano Engineering, **2007** ([Link](#))

C. Thesis and Student Reports

- 1. Scanning Probe Microscopy, Analysis and Manipulation of Ferritin Protein**
 Master's Thesis. Oscar Vazquez-Mena. Thesis Director: Prof. Cees Dekker. **2003**
 Delft University of Technology, The Netherlands
- 2. Development of Stencil Lithography for Nanopatterning and for Electronics and Biosensing Applications**
 Doctoral Thesis. Oscar Vazquez-Mena. Thesis Director: Prof. Juergen Brugger. **2010**
 Ecole Polytechnique Fédérale de Lausanne
- 3. Resistivity of Gold Nanowires Fabricated by Stencil Lithography on Polymer Substrates**
 Master Project Report. Student: Mahmut Tosun; Supervisor: O.Vazquez-Mena; Director: Prof. Juergen Brugger.
2009. Ecole Polytechnique Fédérale de Lausanne

D. EPFL-CMI (Clean Room) Center of Micro-Nanotechnology Reports

- 1. Metallic Nanodots on Polymer Substrates Deposited by Stencil Lithography**
Oscar Vazquez-Mena, Takumi Sannomiya, Janos Voros and Juergen Brugger. **2010**
- 2. Flexible Membranes Improve Resolution in Stencil Lithography**
 K. Sidler, O. Vazquez-Mena, G. Villanueva, V. Savu and J. Brugger. **2010**

- 3. Structuration of Resist Material by Unfocused Ion Beam Irradiation Through 2D Nano-Structured Stencil Mask**
S. Brun, E. Guibert, G. Guibert, S. Mikhailov, O. Vasquez, V. Savu, V. Fakhfour, J. Brugger. **2010**
- 4. Au Nanodot Arrays by Stencil Lithography: Towards Sensing Applications**
O. Vazquez-Mena, T. Sannomiya, G. Villanueva, J. Voros and J. Brugger. **2009**
- 5. Compliant Stencil Lithography**
K. Sidler, G. Villanueva, O. Vazquez-Mena and J. Brugger. **2009**
- 6. Au Nanowires on Polymer Substrates using Stencil Lithography**
M. Tosun, O. Vazquez-Mena, G. Villanueva, J. Brugger. **2009**
- 7. Direct Etching of High-Aspect Ratio Structures Through a Stencil**
G. Villanueva, O. Vazquez-Mena, J. Brugger. **2009**
- 8. Resistless Ion Implantation Through Stencil**
G. Villanueva, C. Martin, O. Vazquez-Mena, J. Brugger. **2009**
- 9. Metallic Nanowires by Stencil Lithography**
O. Vazquez, V. Savu, G. Villanueva, J. Brugger. **2008**
- 10. Nanotrench in Palladium Microwire as a Mechanical Switch for Hydrogen Sensing**
T. Kiefer, G. Villanueva, O. Vazquez, F. Favier, J. Brugger. **2008**
- 11. Resistivity Measurements of Au Wires Fabricated by Stencil Lithography on Flexible Polymer Substrates**
K. Sidler, O. Vazquez-Mena, V. Savu, G. Villanueva, M.A.F. van den Boogaart, J. Brugger. **2008**
- 12. Etching Through Stencils**
G. Villanueva, O. Vazquez-Mena, J. Brugger. **2008**
- 13. Mix & Match EBL-Stencil-NIL**
G. Villanueva, O. Vazquez-Mena, J. Brugger. **2008**
- 14. Gold Discontinuous Thin Films**
K. Jenni, T. Kiefer, O. Vazquez-Mena, G. Villanueva, J. Brugger. **2008**
- 15. Fabrication of Metallic Nanowires by Stencil Lithography**
O. Vazquez-Mena, M. van den Boogaart, J. Brugger. **2007**
- 16. Radio on Paper**
K. Sidler, M.A.F. van den Boogaart, O. Vazquez, J. Brugger, D. Tsamados, C. D'Agostino, C. Anghel, N. Cvetkovic, A.M. Ionescu. **2007**
- 17. Stencil Lithography and Deposition Tool at LMIS1**
M.A.F. van den Boogaart, O. Vazquez-Mena, K. Sidler, J. Brugger. **2007**
- 18. Fabrication of Nanoapertures on Stencils using Focused Ion Beams for Shadow Mask Evaporation**
O. Vazquez, C.W. Park, M. van den Boogaart, J. Brugger. **2006**
- 19. Reverse Transfer of Nanostencil Patterns using Intermediate Sacrificial Layer and Lift-Off**
C.W. Park, O. Vazquez, M.A.F. van den Boogaart, J. Brugger. **2006**

E. Project Reports

- 1. EU FP7 Acapoly-Project Intermediate Report**
V. Auzelyte, A. Voigt, V. Cadarso, U. Ostrzinski, K. Pfeiffer, O. Vazquez-Mena, G. Gruetzner, J. Brugger. **2010**
- 2. NAPA Library of Processes. Stencil Fabrication**
M.A.F. van den Boogaart, Oscar Vazquez-Mena, V. Savu, J. Brugger. **2008**
- 3. Discontinuous Meso-structures for (bio)chemical sensing applications**
Oscar Vazquez-Mena and Juergen Brugger.
STI Seed Funding Report. 2007
- 4. Nano-IC 2007 FNS project report.**
S. Ecoffey, V. Pott, M.A.F. van den Boogaart, O. Vazquez-Mena, J. Brugger, A.M. Ionescu. **2007**

5. Nano-IC 2006 FNS project report.

S. Ecoffey, V. Pott, M.A.F. van den Boogaart, O. Vazquez-Mena, J. Brugger, A.M. Ionescu. **2006**

F. Science and Technology Divulcation and Outreach Articles

Dr. Oscar Vazquez was a contributor to the section of Science and Technology for the Mexican magazine "AenE", aiming at spreading the latest scientific and technological advances at his home state of Chiapas in Mexico. The articles are in Spanish.

1. Claves para el desarrollo de energias ambientalmente sustentables (*Key issues for the development of sustainable energy technologies*)

Oscar Vazquez Mena, AenE Magazine, No. 2, July 2011

2. Nanotecnologia: Promesas con dudas (*Nanotechnology: Promises and Doubts*)

Oscar Vazquez Mena, AenE Magazine, No. 3, August 2011

3. Electronica en Plastico (*Plastic electronics*)

Oscar Vazquez Mena, AenE Magazine, No. 4, September 2011

4. A la conquista de Marte (*Conquering Mars*)

Oscar Vazquez Mena, AenE Magazine, No. 6, January 2012

5. Tsunamis en Mexico: Historia, Riesgos, Prevision (*Tsunamis in Mexico: History, Risks and Prevention*)

Oscar Vazquez Mena, AenE Magazine, No. 6, January 2012

6. Biodiesel (*Biodiesel*)

Oscar Vazquez Mena, AenE Magazine, No. 7, February 2012

7. Nanoparticules: Nueva arma contra el cancer (*Nanoparticles: The new weapon against cancer*)

Oscar Vazquez Mena, AenE Magazine, No. 8, March 2012

8. Hidrogeno: El combustible del future (*Hydrogen: The fuel of the future*)

Oscar Vazquez Mena, AenE Magazine, No. 9, June 2012