Professor Yves J. Chabal
Invited Talks - since 1990


129. *Interface Formation between Ge (and Si) substrates and HfO₂ films using in-situ Infrared Absorption Spectroscopy*, Y.J. Chabal, AVS 5th international Conference on Atomic Layer Deposition, San Jose, CA, Aug. 8-10, 2005.


126. *Semiconductor surface chemical functionalization for microelectronic applications: Technological challenges as scientific opportunities*, Y.J. Chabal, Materials Science Colloquium, University of Delaware, Newark, DE, March 9, 2005


123. *Growing Materials One Atomic Layer at a time*, Y.J. Chabal, Chemistry colloquia at Smith College and at Wesleyan College, Oct. 7 and 8, 2004


104. *Applications of Infrared Spectroscopy for Technological Surfaces*, Y.J. Chabal, 10\textsuperscript{th} International conference on Vibrations at Surfaces (June 17-21, 2001, St Malo, France)

97. Mechanistic Studies of the initial Si(100)-(2x1) Oxidation and Nitridation, Y.J. Chabal, Surface and interface physics Seminar series at the CEA Saclay, Nov. 17, 2000, Saclay, France.

96. The role of hydrogen in silicon exfoliation by H⁺-implantation, Y.J. Chabal, 16th International Conference on the Application of Accelerators in Research and Industry (CAARI), Nov. 1-4, 2000, Denton, TX.


94. FTIR Studies of the Si/SiO₂ Interface, Y.J. Chabal and K.T. Queeney, Nicolet Technical Symposium (Foster City, CA, Feb. 8, 2000)


91. Nature of the Si-SiO₂ Interface: a vibrational study, Y.J. Chabal, Workshop on the Si-SiO₂ and the SiC-SiO₂ Interfaces – Similarities and Differences, Vanderbilt University, Nashville, TN, Nov. 4-5, 1999


87. The mechanism of the initial oxidation of Si(100)-(2 x 1) as studied by external transmission infrared spectroscopy and density functional theory, Y.J. Chabal, M.K. Weldon, K.T. Queeney and K. Raghavachari, 12th International Conference on Fourier Transform Spectroscopy, Tokyo, Japan, Aug. 22-27, 1999.


85. Elementary Processes in Silicon Oxidation, Y.J. Chabal, Fifth International Conference on Atomically Controlled Surface and Interfaces, Aix-en-Provence, France (July 5-8, 1999)

83. Silicon Oxidation and Ultra-thin Oxide Formation on Silicon Studied by Infrared Absorption Spectroscopy, Y. J. Chabal, K. Queeney, M. Weldon, K. Raghavachari, Surface & Interface Optics Workshop, St Maxime, France, May 4-8, 1999.

82. Semiconductor Surface Passivation, Moses Gomberg Lecture, University of Michigan, April 15, 1999

81. Initial Steps in Silicon Oxidation and Nitridation: From discrete SiOx and Si-Nx surface structures to continuous films, K. T. Queeney, Y. J. Chabal, M.K. Weldon, B. Stefanov and K. Raghavachari, Materials Research Society Spring Meeting, San Francisco, CA (April 5-9, 1999)

80. Initial Growth of Silicon Oxide, Nitride and Oxynitride, Y. J. Chabal, Annual Meeting of the American Physical Society, Atlanta, GA (March 22-26, 1999)

79. Exotic structures on oxidized Silicon surfaces, 26th International Conference on the Physics and Chemistry of Surfaces and Interfaces (PCSI-26) San Diego, CA (January 17-21, 1999)


71. Studies of Silicon Oxidation, B.B. Stefanov, K. Raghavachari, Y. J. Chabal and M.K. Weldon, American Chemical Society, Spring meeting (Dallas, TX) March 30-April 3, 1998.


67. Vibrational Studies of the water-induced oxidation of Si(100), M.K. Weldon, J. Eng, Jr., B.E. Bent, Y. J. Chabal and L.M. Struck, Symposium honoring the memory of
65. Infrared Spectroscopy of Hydrogen at Surfaces and Interfaces, Y.J. Chabal, American Physical Society March Meeting (Kansas City, MO), March 17-21, 1997
59. Spectroscopic Fingerprints at H/Si(111)-(1x1) and Ag/H/Si(111)-(1x1) Interfaces, P. Dumas and Y.J. Chabal, European Research Conf. on Fundamental Aspects of Surface Science: Semiconductor Surfaces (Blankerberge, Belgium) June 7-11, 1996.
51. Atomic Scale Removal Mechanism during Chemo-mechanical Polishing of Si(100) and Si(111), G.J. Pietsch, G.S. Higashi and Y.J. Chabal, 14th European Conf. on Surface Science (ECOSS-14) (Leipzig, Germany) Sept. 19-23, 1994.


38. *Interadsorbate Vibrational Energy Flow on stepped H/Si(111) Surfaces*, M. Morin, K. Kunhke, P. Jakob, **Y.J. Chabal**, A.L. Harris, 7th Int. Conf. on Vibrations at Surfaces (Portofino, Italy) June 14-17, 1993.


