

Arturo Iglesias

a. Education:

Engineering School, UNAM, Geophysical Engineering, 2000
UNAM, Masters in Geophysics, 2001
UNAM, Ph. D. in seismology, 2005
CALTECH, Postdoctoral Scholarship, 2006

b. Appointments:

2006-Present, Associate Professor, Institute of Geophysics, UNAM
2006 Scholar Postdoc. California Institute of Technology. Advisor Robert W. Clayton.
2005 Postdoctoral Fellowship. Engineering Institute, UNAM

c. Relevant Publications:

Horizontal Subduction and Truncation of the Cocos Plate Beneath Central Mexico. Pérez-Campos, X, Y. Kim, A. Husker, P. M. Davis, R. W. Clayton, A. Iglesias*, J. F. Pacheco, S. K. Singh, V. C. Manea, and M. Gurnis. *Geophys. Res. Lett.*, **35**, doi:10.1029/2008GL035127, 2008

Nonvolcanic Tremor Observed in the Mexican Subduction Zone. Juan S. Payero, V. Kostoglodov, Nikolai Shapiro, T. Mikumo, A. Iglesias*, X. Pérez-Campos, and R. W. Clayton. *Geophys. Res. Lett.*, **35**, doi:10.1029/2007GL032877, 2008.

The Seismic Alert System for Mexico City: An Evaluation of its Performance and a Strategy for its Improvement. A. Iglesias*, S. K. Singh, M. A. Santoyo, J. Pacheco, y M. Ordaz. *Bull. Seism. Soc. Am.* Vol. **97**, 5, 2007.

Estimation of Radiated Energy using the EGF Technique: What Should Be the Upper Limit of Integration in the Frequency Domain?. A. Iglesias* and S.K. Singh.. *Bull. Seism. Soc. Am.* **97**, 4, 2007.

Crustal Structure of South-Central Mexico Estimated from the Inversion of Surface Wave Dispersion Curves using Genetic and Simulated Annealing Algorithms. A.Iglesias, V.M. Cruz-Atienza, N.M. Shapiro, S.K. Singh y J.F.Pacheco. A.Iglesias*, V.M. Cruz-Atienza, N.M. Shapiro, S.K. Singh, and J.F.Pacheco. *Geof. Int.*, **40**, 3 p.p. 181-189, 2001.

Other Significant Publications

Q of Lg Waves in the Central Mexican Volcanic Belt. S. K. Singh, A. Iglesias*, D. García, J. F. Pacheco, and M. Ordaz. *Bull. Seism. Soc. Am.*, **97**, 4, 2007.

Muzaffarabad earthquake of 8 October 2005 (Mw 7.6): A preliminary report on source characteristics and recorded ground motions. S. K. Singh, A. Iglesias*, R. S. Dattatrayam, B. K. Bansal, S. S. Rai, X. Perez-Campos, G. Suresh, P. R. Baidya y J. L. Gautam. *Curr. Science.* **91**, 5 689-695, 2006.

The Great Sumatra-Andaman Earthquake of 2004: Regional Broadband Seismograms from India. Singh, S. K.; Dattatrayam, R. S.; Suresh, G.; Iglesias*, A.; Bansal, B. K.; Pérez, Xyoli;Ordaz, M.; Gupta, H. K.; Baidya, P. R.; Gautam, J. L. *Seism. Res. Lett.*, **76**, 684-692, 2005.

The silent earthquake of 2002 in the Guerrero seismic gap, Mexico (Mw=7.6): inversion of slip on the plate interface and some implications. A. Iglesias*, S.K. Singh, A. Lowry, M.

Santoyo, V. Kostoglodov, K. M. Larson y S.I. Franco-Sánchez. *Geof. Int.* **43**, 3, 309-317, 2004.

Near-Trench Mexican Earthquakes Have Anomalously Low Peak Accelerations. A. Iglesias, S.K. Singh, J.F. Pacheco, L. Alcántara, M. Ortiz y M. Ordaz. *Bull. Seism. Soc. Am.*, **93**, 953-959, 2003.

Crustal Structure of South-Central Mexico Estimated from the Inversion of Surface Wave Dispersion Curves using Genetic and Simulated Annealing Algorithms. A.Iglesias, V.M. Cruz-Atienza, N.M. Shapiro, S.K. Singh y J.F.Pacheco. A.Iglesias*, V.M. Cruz-Atienza, N.M. Shapiro, S.K. Singh, and J.F.Pacheco. *Geof. Int.*, **40**, 3 p.p. 181-189, 2001.

d. Synergistic Activities:

2006-2008 Served on three CONACyT special projects review panels

2007-2008 Served on three admission committees of graduated students, UNAM

e. Other Skills

Experience on seismic instrumentation. MASE experiment: 100 VBB stations, VEOX experiment: 50 VBB stations, Tecoman earthquake (22/01/2003, Mw=7.5) aftershock campaign, Oaxaca earthquake (30/09/2003, Mw=7.4).

f. Collaborators:

B. K. Bansal(DST), P. R. Baidya(IMD), R.W. Clayton (Caltech), R. S. Dattatrayam (IMD), P. M. Davis (UCLA), D. García (UNAM), J. L. Gautam(IMD),M. Gurnis (Caltech), A. Husker (UNAM), , Y. Kim (Caltech), V. Kostoglodov(UNAM), V. C. Manea (UNAM), M. Ordaz (UNAM), M. Ortíz (CICESE), J. Pacheco (Ovsicori), J. S. Payero (UNAM), S. S. Rai (NGRI) Santoyo(UAL), N. Shapiro (IPGP), S.K. Singh (UNAM), T. Mikumo (UNAM)

Graduate Advisor: S.K. Singh (UNAM)

Post Doctoral Advisor: R.W. Clayton (Caltech)

Thesis Advisor: Luz María Nolasco (B. Sc., 2006)