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Research Interests

- Volcanic flow modeling (debris flow and pyroclastic density current)
- Volcano geophysical modeling (deformation, seismic, gravity)
- Volcano monitoring data management and analysis

Teaching experiences

- a. *WOVOdat (World Organization of Volcano Observatories - WOVO' Database of volcanic unrest)*
 - 16-23 October 2012: West Pacific WOVOdat training course for volcano observatory staff from PHIVOLCS-Philippine, CVGHM-Indonesia, RVO-Papua new Guinea
 - 5-16 March 2012: WOVOdat training course for volcano observatory staff from INGEOMINAS (SGC)-Colombia and OVSICORI-Costa Rica
 - 21-25 November 2012: WOVOdat training course for volcano observatory staff from PHIVOLCS-Philippine and CVGHM-Indonesia

- b. Volcanic flow modeling
 - December 2011 - June 2012: supervising “Merapi volcanic flow hazard and risk assessment project”, Merapi Volcano Observatory (BPPTK) - Indonesian National Board for Disaster Management (BNPB)
 - September 2011 - May 2012: supervising Gadjah Mada University (UGM) master student on “Pyroclastic flow modeling for Merapi volcano using Titan2D code”
 - 14-22 July 2011: supervising PhD student from University Paris-1 Pantheon-Sorbonne on “Lahar flow simulation for Merapi volcano using LAHARZ code”, at EOS
 - 25-29 April 2011: Volcanic flow modeling training course at CVGHM-Bandung-Indonesia
 - 9-11 March 2011: Volcanic flow modeling training course at Merapi Volcano Observatory-Indonesia
 - 6 March 2010: Pyroclastic flow simulation using LAHARZ code, course as part of EOS GIS-RS workshop for volcano observatory staff from PHIVOLCS-Philippine, CVGHM-Indonesia, RVO-Papua new Guinea

- c. Volcano geophysical modeling

- 1-14 November 2010: Merapi volcanic monitoring data analysis and volcanic flow hazard, assistance during 2010 Merapi eruption, at Merapi Volcano Observatory-Indonesia
 - 8-12 February 2010: “Mayon GPS data analysis” for PHIVOLCS staff, at EOS
- d. November 2011 - March 2012: Tutorial and supervising a Junior College student intern from Hwa Chong Institution, research on: “Investigation of correlations between physical characteristics and eruption patterns of volcanoes: Toward better forecast on future eruption”.

Professional Appointments

2009 - present Senior Research Fellow, Volcano Group, Earth Observatory of Singapore.

2003 - 2009 Post-Doctorate Research Schollar, Department of Geosciences, Penn State University, Pennsylvania, USA.

1996 - 2009 Research assistant, Laboratory of Gravity and Geodynamic, Institut de Physique du Globe de Paris (IPGP)

1994 - 1996 Research Assistant, R & D center for Geotechnology, Indonesian Institute of Sciences (LIPI), Bandung, Indonesia.

Education

Institut de Physique du Globe de Paris (France)
Ph.D. Geophysics 2002

Ph.D. thesis:

The response of lithospheric structures to different stages of collision between two subduction zones: The Molucca Sea example.

Institut de Physique du Globe de Paris (France)
D.E.A. Geophysics 1997

D.E.A. thesis:

Seismology study in the Molucca Sea.

Bandung Institute of Technology (Indonesia)
B.Sc. Geophysics 1993

B.Sc. thesis:

Finite difference resistivity modeling for arbitrarily shaped (2D) structures.

Relevant Professional, Field and Research Experiences

- 2009 - present: Senior Research Fellow, Volcano Group, Earth Observatory of Singapore - NTU.
 - ⇒ Developing WOVOdat (Database of world volcano unrests)
 - ⇒ Participate and support EOS Volcano Group projects
 - ⇒ Assist/aid to EOS Volcano Group collaborators: provide training/supervision on volcanic flow hazard assessment and volcano monitoring data analysis, also assistance during volcano crisis

- 2003 - 2009: Post-Doctorate Research Scholar, Department of Geosciences, Penn State University, Pennsylvania, USA.
 - ⇒ 2005-2009: joint collaboration National Science Foundation (NSF) USA and Natural Environment Research Council (NERC)-UK, post-doctorate research scholar, research grant in SEA-CALIPSO An Offshore/Onshore Tomography and Magma-Chamber Seismic Imaging Experiment on Montserrat.
 - ⇒ 2006-2008: National Science Foundation (NSF)-USA, post-doctorate research scholar, collaborative research works between INGV-Italy, Penn State University and Arizona State University on multidimensional, multiphase and multicomponent Eulerian model to simulate Mount St. Helens and Montserrat lateral blasts using PDAC (Pyroclastic Dispersal Analysis Code).
 - ⇒ 2004-2008: National Science Foundation (NSF)-USA, post-doctorate research scholar, research grant in Validation of a numerical Granular Flow Simulation Model for Pyroclastic Flows and Debris Avalanches.
 - ⇒ 2003-2009: National Science Foundation (NSF)-USA, post-doctorate research scholar, research grant in CALIPSO (Caribbean Andesite Lava Island-volcano Precision Seismo-geodetic Observatory) project in Montserrat island, British West Indies.

- 1996 - 2009: PhD student - Research assistant, Laboratory of Gravity and Geodynamic, Institut de Physique du Globe de Paris (IPGP)
 - ⇒ 2000-2001: Centre National de la Recherche Scientifique (CNRS)-France, research aid, DEFLO marine geophysics survey, investigation of the active deformation of the Indian Ocean lithosphere.
 - ⇒ 1996-2002: Centre National de la Recherche Scientifique (CNRS)-France, research assistant, MODEC marine survey research grant in collision and strike slip faulting in the Molucca Sea (Philippines-Indonesia).
 - ⇒ 1995-1996: Ministry of Environment-France, research aid, research grant in Interaction between tectonic and volcanism of the Sumatra Fault, Indonesia.

- 1994 - 1996: Research Assistant, R & D center for Geotechnology, Indonesian Institute of Sciences (LIPI), Bandung, Indonesia.
 - ⇒ 1994-1996: Indonesian National Competitive Research, research

grant participant in Crustal Deformation of Palu Koro active fault - Central Sulawesi, magmatism, neogene and its correlation with earthquake and mineralization.

- ⇒ 1995: International Toray Science Foundation (ITSF)-Japan, research grant participant in Identification of High Possible Areas being hit by Tsunami event in Java Island, Indonesia.
- ⇒ 1994: LIPI - CNRS - IRD collaborative project on “Aftershock sequence of the 1994, Mw 6.8, Liwa earthquake (Indonesia): Seismic rupture process in a volcanic arc”

Grants and Invitations

- February 2002: Centre National de la Recherche Scientifique (CNRS), France - United Institute of physics of the Earth, Russia Academy of Sciences (RAS), Russia (visiting student fellowship)
- 2001-2002: Institut de Recherche pour le Développement, IRD, France (PhD- scholarship)
- 1996-2001: Ministry of Foreign Affairs, France (MS and PhD scholarship)
- Jan-May 1995: Institut de Recherche pour le Développement, IRD-ORSTOM, France (visiting student fellowship)

Professional memberships

- American Geophysical Union (AGU)
- International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)
- Asia Oceania Geosciences Society (AOGS)

Publications

Published on international review journals:

1. Esposti-Ongaro, T., Clarke A.B., Voight B., Neri, A., **Widiwijayanti, C.**, (2012), Multiphase flow dynamics of pyroclastic density currents during the May 18, 1980 lateral blast of Mount St. Helens (USA), *Journal of Geophysical Research - Solid Earth*, [Paper #2011JB009081], in press.
2. Esposti-Ongaro, T., **Widiwijayanti, C.**, Clarke A.B., Voight B., Neri, A. (2011). Multiphase-flow numerical modelling of the May 18, 1980 lateral blast at Mount, St. Helens (USA), *Geology*, 39, p. 535-538, doi:10.1130/G31865.1.
3. Voight B., Sparks, R.S.J., Hammond, J., Shalev, E., Malin, P., Kenedi, C., Minshull, T.A., Paulatto, M., Mattioli, G., Hidayat, D., **Widiwijayanti, C.** (2010). Active Source Seismic Experiment Peers Under Soufrière Hills Volcano. *EOS, Transaction, American Geophysical Union*, 91(28), 245, doi:10.1029/2010EO280002.
4. Chardot, L., B. Voight, R. Foroozan, S. Sacks, A. Linde, R. Stewart, D. Hidayat, A. Clarke, D. Elsworth, N. Fournier, J.-C. Komorowski, G.

- Mattioli, R. S. J. Sparks, and C. Widiwijayanti (2010), Explosion dynamics from strainmeter and microbarometer observations, Soufrière Hills Volcano, Montserrat: 2008-2009, *Geophys. Res. Lett.*, 37, L00E24, doi:10.1029/2010GL044661.
5. B. Voight, C. Widiwijayanti, G. Mattioli, D. Elsworth, D. Hidayat, and M. Strutt. (2010). Magma-sponge hypothesis and stratovolcanoes: Case for a compressible reservoir and quasi-steady deep influx at Soufrière Hills Volcano, Montserrat. *Geophysical Research Letters*, 37(L00E05), doi:10.1029/2009GL041732.
 6. Linde, A., S.I. Sacks , D. Hidayat , B. Voight , A. Clarke , D. Elsworth , G. Mattioli , P. Malin , E. Shalev , S. Sparks , C. Widiwijayanti. (2010). The Vulcanian Explosion at Soufriere Hills Volcano, Montserrat on March 2004 as Revealed by Strain Data. *Geophysical Research Letters*, 37(L00E07), doi:10.1029/2009GL041988.
 7. Voight, B., Hidayat, D., Sacks, S., Linde, A., Chardot, L., Clarke, A., Elsworth, D., Forozan, R., Mattioli, G., McWorther, N., Sparks, R.S.J., Widiwijayanti, C. (2010). Unique Strainmeter Observations of Vulcanian Explosions, Soufriere Hills Volcano, Montserrat, July 2003. *Geophysical Research Letters*, 37(L00E18), doi:10.1029/2010GL042551.
 8. Voight, B., Chardot, L., Forozan, R., Sacks, S., Linde, A., Stewart, R., Hidayat, D., Clarke, A., Elsworth, D., Fournier, N., Komorowski, J.-C., Mattioli, G., Sparks, R.S.J., Widiwijayanti, C. (2010). Explosion Dynamics from Strainmeter Observations, Soufriere Hills Volcano, Montserrat, W.I.:2008-2009. *Geophysical Research Letters*, 37(L00E24), doi:10.1029/2010GL044661.
 9. Mattioli, G., R. Herd , M. Strutt , G. Ryan , C. Widiwijayanti, B. Voight. (2010). Long Term Surface Deformation of Soufriere Hills Volcano, Montserrat from GPS Geodesy: Inferences from Simple Elastic Inverse Models. *Geophysical Research Letters*, 37(L00E13), doi:10.1029/2009GL042268.
 10. Widiwijayanti, C., B. Voight, D. Hidayat, S. Schilling, Objective rapid delineation of areas at risk from block-and-ash pyroclastic flows and surges, *Bull. Volc.*, doi. 10.1007/s00445-008-0254-6. 2008.
 11. Esposti Ongaro, T., A. B. Clarke, A. Neri, B. Voight, and C. Widiwijayanti, Fluid dynamics of the 1997 Boxing Day volcanic blast on Montserrat, West Indies, *J. Geophys. Res.*, 113, B03211, doi:10.1029/2006JB004898, 2008.
 12. Mattioli, G.S., B. Voight, A.T. Linde, I.S. Sacks, P. Watts, C. Widiwijayanti, S.R. Young, D. Hidayat, D. Elsworth, P.E. Malin, E. Shalev, E. Van Boskirk, W. Johnston, R.S.J. Sparks, J. Neuberg, V. Bass, P. Dunkley, R. Herd, T. Syers, P. Williams, and D. Williams, Unique and remarkable dilatometer measurements of pyroclastic flow-generated tsunamis. *Geology: Vol. 35, No. 1 pp. 25- 28, 2007.*
 13. B. Voight, Linde, A.T., Sacks, I.S., Mattioli, G.S., Sparks, R., Elsworth, D., Hidayat, D., Malin, P.E., Shalev, E., Widiwijayanti, C., Young, S.R., Bass, V., Clarke, A., Dunkley, P., Johnston, W., McWhorter, N., Neuberg, J. and Williams, P., Unprecedented pressure increase in deep magma reservoir triggered by lava-dome collapse. *Geophysical Research Letters* 33(3), L03312, doi:10.1029/2005GL024870, 2006.

14. **Widiwijayanti, C.**, Clarke, A., Elsworth, D. and Voight, B., Geodetic constraints on the shallow magma system at Soufrière Hills Volcano, Montserrat. *Geophysical Research Letters* 32(11), L11309, doi:10.1029/2005GL022846, 2005.
15. **Widiwijayanti C.**, Tiberi C., Deplus C., Diament M, Mikhailov V., Louat R., Geodynamic evolution of the northern Molucca Sea area (Eastern Indonesia) constrained by 3-D gravity field inversion, *Tectonophysics*, v. 386, pp.203-222, 2004.
16. Mattioli, G., Young, S., Voight, B., Sparks, R., Shalev, E., Selwyn, S., Malin, P., Linde, A., Johnston, W., Hidayat, D., Elsworth, D., Dunkley, P., Herd, R., Neuberg, J., Norton, G. and **Widiwijayanti, C.**, Prototype PBO Instrumentation of CALIPSO Project Captures World-Record Lava Dome Collapse on Montserrat Volcano. *EOS* 85(34), p. 317, 323, 325, 2004.
17. **Widiwijayanti C.**, Mikhailov V., Diament M., Deplus C., Louat R., Tikhotsky S., Gvishiani A., Structure and evolution of the Molucca Sea area: Constraints based on interpretation of a combined sea-surface and satellite gravity dataset. *Earth and Planet. Sc. Lett.*, no. 215, pp. 135-150, 2003.
18. **Widiwijayanti, C.**, Déverchère, J., Louat, R., Sébrier, M., Harjono, H., Diament, M. and Hidayat, D., Aftershock sequence of the 1994, Mw 6.8, Liwa earthquake (Indonesia): Seismic rupture process in a volcanic arc, *Geophysical Research Letters* 23(21),pp. 3051-3054, Oct 1996.

Conference Abstracts:

1. A. Ratdomopurbo, **C. Widiwijayanti**, C. Newhall, Nang T.Z.W., Chen L.D., (2012) WOVodat For Comparison of Volcanic Unrest Behavior, Cities on Volcano 7, Colima, Mexico, Abstract 3C1.5-17
2. Saepuloh, A., Urai, M., Hidayatai, S., Santoso, A.B., **Widiwijayanti, C.**(2012) Detecting Magmatic Processes During Merapi Inter-eruptive Period Using Time Series of Deformation and Seismicity Data, AOGS-AGU (WPGM) Joint Assembly 2012, Singapore, Abstract SE106-A011
3. A. Ratdomopurbo, **C. Widiwijayanti**, C. Newhall, Nang T.Z.W., Chen L.D., (2012) WOVodat Template For Easy In Building Historical Volcanic Unrest Database, AOGS-AGU (WPGM) Joint Assembly 2012, Singapore, SAbstract E105-107-A029
4. Ratdomopurbo, A., **Widiwijayanti, C.**, Win, N-T-Z , Chen, L-D, and Newhall, C., (2011), WOVodat Progress 2012: Installable DB template for Volcano Monitoring Database, EGU 2012, Abstract EGU2012-6742
5. Esposti-Ongaro, T., Clarke A.B., Voight B., Neri, A., **Widiwijayanti, C.**, (2012), topographic control on pyroclastic density currents: the example of Mount St. Helens 1980 blast, EGU 2012, Abstract EGU2012-4128
6. Saepuloh, A., Urai, M., **Widiwijayanti, C.**, Aisyah, N., (2011) Observing 2006-2010 ground deformations of Merapi volcano (Indonesia) using ALOS/PALSAR and ATER TIR data, Proceedings of 2011 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), 24-29 July 2011, Vancouver, Canada.

7. Mattioli, G.S., Herd, R.A., Strutt, M.H., Ryan, G., Elsworth, D., Foroozan, R., **Widiwijayanti, C.**, Voight, B., 2011, Geodetic imaging of Soufriere Hills Volcano, Montserrat from 1995-2009, Soufriere Hills Volcano 15 Years On, Meeting abstract, Montserrat 4-8th April 2011.
8. A. Ratdomopurbo, **C. Widiwijayanti**, C. Newhall, 2011, WOVOdat: A way for comparing unrest between volcanoes, IUGG2011, Meeting abstract, 28 June - 7 July 2011, *Melbourne*, Australia.
9. N. Aisyah, IGM. Nandaka, J. Djalal, **C. Widiwijayanti**, Modeling the 2010 Merapi Pyroclastic Flow, IUGG2011, Meeting abstract, 28 June - 7 July 2011, *Melbourne*, Australia.
10. G.S. Mattioli, R. A. Herd, M.H. Strutt, G. Ryan, D. Elsworth, R. Foroozan, **C. Widiwijayanti**, B. Voight, 2011, Geodetic imaging of Soufriere Hills Volcano, Montserrat from 1995-2009, Soufriere Hills Volcano 15 Years On, Meeting abstract, Montserrat 4-8th April 2011.
11. B. Voight, Sea-Calipso team, **C. Widiwijayanti**, MVO team, 2011, The SEA-CALIPSO active-source seismic experiment finds magma chamber and crustal structure under Soufriere Hills Volcano, Soufriere Hills Volcano 15 Years On, Meeting abstract, Montserrat 4-8th April 2011.
12. **C. Widiwijayanti**; B. Voight; D. Hidayat; A. Patra; E. Pitman, 2010, Titan2D simulations of dome-collapse pyroclastic flows for crisis assessments on Montserrat, *Eos Trans. AGU*, 91(52), Fall Meet. Suppl., Abstract V13A-2342.
13. A. Ratdomopurbo; **C. Widiwijayanti**; A. Baguet; C. Lyou; C. G. Newhall, 2010, WOVOdat: Data Population and Current Development, *Eos Trans. AGU*, 91(52), Fall Meet. Suppl., Abstract V41C-2297
14. D. Hidayat; E. Laguerta; A. Baloloy; S. Marcial; **C. Widiwijayanti**, 2010, Broadband Seismic Monitoring of Mayon Volcano, the Philippines, *Eos Trans. AGU*, 91(52), Fall Meet. Suppl., Abstract V53B-2242.
15. Ratdomopurbo, A., **Widiwijayanti, C.**, Baguet, A., Lyou, C-M, Newhall, C., 2010, The WOVOdat Database, Data Formats and WOVOMl Structure, Cities on Volcanoes 6th, Tenerife, Spain, Abstract 1.3-0-22.
16. Voight, B., **C. Widiwijayanti**, G. Mattioli, C. Ammon, D. Elsworth, R. Foroozan, D. Hidayat, M. Humphreys, T. Minshull, M. Paulatto, E. Shalev, S. Sparks, S Conundrum on magmatic reservoir of Soufriere Hills volcano, Montserrat: enigmatic evidence and the case for a vertically-elongated reservoir, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract #V53C-08, 2008.
17. Esposti Ongaro, T., **C. Widiwijayanti**, B. Voight, A. Clarke, A. Neri, Simulating the Initial Dynamics of the 18 May 1980 Mount St.Helens Blast, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract #V34A-07, 2008.
18. Hidayat, D., S. Sacks, A. Linde, B. Voight, **C. Widiwijayanti**, D. Elsworth, G. Mattioli, P. Malin, E. Shalev, Understanding Vulcanian Explosions at Soufriere Hills Volcano, Montserrat, using Dilatometer Data, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract # V53C-01, 2008.
19. **Widiwijayanti, C.**, B. Voight, D. Hidayat, S. Schilling, GIS-based statistical mapping technique for block-and-ash pyroclastic flow and surge hazards, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract # V11C-2056, 2008.

20. Mattioli, G. B. Voight, R. Herd, G. Ryan, **C. Widiwijayanti**, Surface deformation of Soufriere Hills volcano, Montserrat from GPS: inferences about the deep magmatic system and its evolution from 1995 to 2007, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
21. Hidayat, D., B. Voight, E. Shalev, C. Ammon, **C. Widiwijayanti** , Attenuation structure of lithosphere about Soufriere Hills Volcano, Montserrat, WI, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
22. Sparks, S., S. Dean, J. Hammond, D. Hidayat, K. Kenedi, P. Malin, T. Minshull, M. Paulatto, C. Pearce, G. Ryan, E. Shalev, B. Voight, **C. Widiwijayanti**, SEA-CALIPSO volcano imaging experiment on Montserrat: Part 2. Sea operations, OBS deployments, and images from streamers and offshore/onshore stations, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
23. Voight, B., E. Shalev, D. Hidayat, K.L. Kennedy, L. Brown, T. Minshull, R.S.J. Sparks, C. Snelson, G.S. Mattioli, V. Miller, **C. Widiwijayanti**, R. Stewart, L. Carothers, M. Johnson, W. Zamora, R. Herd, P.E. Malin, C. Ammon, D. Elsworth, S. Saldana, M. Paulatto, S. De Angeli, K. Byerly, E. Kiddle, V. Bass, A. Belousov, C. Chen, A.B. Clarke, B. Christensen, T. Christopher, A. Custance- Baker, The SEA-CALIPSO volcano imaging experiment on Montserrat: Part 1. Onshore seismometer deployments, tomography, and images from onshore stations, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
24. Hidayat, D., S. Sacks, A. Linde, B. Voight, **C. Widiwijayanti**, B.A. Chouet, Unique Broadband Seismic, Strainmeter and Barometer Observations of Vulcanian Explosions, Soufriere Hills Volcano, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
25. Mattioli, G.S., B. Voight, D. Elsworth, A. Linde, S. Sacks, P. Malin, L. Brown, A. Clarke, S.Sparks, J. Neuberg, V. Hards, W. Johnston, D. Hidayat, **C.Widiwijayanti**, S. Young, E. Shalev, P. Williams, The CALIPSO Project on Soufriere Hills Volcano, Montserrat, BWI: Status and Scientific Results From 2003 to 2007, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
26. Hidayat, D., **C. Widiwijayanti**, B Voight, A Patra, EB Pitman, TITAN2D-based modeling of dome- collapse pyroclastic flows for crisis assessments on Montserrat, *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
27. **Widiwijayanti, C.**, Voight, B , Hidayat, D , Schilling, S., Field-based statistically-constrained mapping of areas at risk from block-and-ash pyroclastic flows and surges. *IAVCEI 2008 General Assembly, Reykjavik, Iceland, 2008*.
28. **Widiwijayanti, C.**, Voight, B , Hidayat, D , Schilling, S., Rapid Objective Rapid Delineation of Areas At Risk From Block-and-Ash Pyroclastic Flows, *Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract # V11D-0818, 2007*.
29. Hidayat, D., **C. Widiwijayanti**, B Voight, A Patra, EB Pitman, TITAN2D Analyses of Dome- Collapse Pyroclastic Flows on Montserrat, *Eos Trans. AGU, 88(52), Fall Meet. Suppl., Abstract #V31B-0499, 2007*.
30. **Widiwijayanti, C.**, D Hidayat, B Voight, A Patra, EB Pitman, Modelling Dome-collapse Pyroclastic Flows for Crisis Assessments on Montserrat with TITAN2D, *Abstract 11-P-34, Cities On Volcanoes 5th Meeting, Shimabara, Japan, 2006*.

31. **Widiwijayanti, C.**, Voight, B., Hidayat, D., Objective Rapid Delineation of Areas at Risk From Inundation by Block-and-ash Pyroclastic Flows, Abstract 11-P-31, *Cities On Volcanoes 5th Meeting, Shimabara, Japan, 2006*.
32. Esposti Ongaro, T., Clarke, A., Neri, A., Voight, B., **Widiwijayanti, C.**, Fluid Dynamics of Volcanic Blasts: Application to the Soufriere Hills Volcano, Montserrat (W.I.), *Abstract 11-O-06, Cities On Volcanoes 5th Meeting, Shimabara, Japan, 2006*.
33. Esposti Ongaro, T., Neri, A., Clarke, A., Voight, B., **Widiwijayanti, C.**, 3D numerical simulations of the multiphase flow dynamics and hazard of laterally directed blasts on Montserrat (December 1997), *Geophysical Research Abstracts, Vol. 8, 09301, EGU General Assembly, Vienna, Austria, 2006*.
34. Mattioli, G. S.; Voight, B.; Linde, A. T.; Sacks, I. S.; Watts, P.; Hidayat, D.; Young, S. R.; **Widiwijayanti, C.**; Shalev, E.; Malin, P. E.; Elsworth, D.; Williams, P.; van Boskirk, E.; Thompson, G.; Syers, T.; Sparks, R. S.; Schleigh, B.; Norton, G.; Neuberg, J.; Miller, V.; McWhorter, N.; Johnston, W.; Dunkley, P.; Clarke, A. B.; Bass, V., The CALIPSO Borehole Project at Soufriere Hills Volcano, Montserrat, BWI: Status and Scientific Overview of Prodigious Dome Collapse of July 2003. *Eos. Trans. AGU, 86(18), Fall Meet. Suppl., Abstract V34A-05, 2005*.
35. Voight, B., PE Malin, L Brown, RSJ Sparks, E Shalev, C Ammon, AB Clarke, D Elsworth, D Hidayat, AT Linde, GS Mattioli, V Miller, J Neuberg, IS Sacks, **C Widiwijayanti**, SR Young, S Loughlin, V Bass, T Syers, P Williams, SEA-CALIPSO 'Onshore-Offshore' Seismic Experiment to image Magma Reservoir on Montserrat, *Soufriere Hills Volcano-Ten Years On, Scientific Conference, Montserrat, B.W.I., July, 2005*.
36. Van Boskirk, E., G. Mattioli, B. Voight, **C.Widiwijayanti**, D. Elsworth, D. Hidayat, P. Watts, A. Linde, S. Sacks, P. Malin, E. Shalev, J. Neuberg, R.S.J. Sparks, Pyroclastic Flow Induced Tsunami Captured by Borehole Strainmeter: Observations and Theory, *Soufriere Hills Volcano-Ten Years On, Scientific Conference, Montserrat, B.W.I., July, 2005*.
37. Sacks, S., AT Linde, D Hidayat, D Elsworth, **C Widiwijayanti**, B Voight, SR Young, GS Mattioli, PE Malin, E Shalev, The Dome Collapse of July 2003 and Other Activity: Insights from Borehole Strain Data, *Soufriere Hills Volcano-Ten Years On, Scientific Conference, Montserrat, B.W.I., July, 2005*.
38. **Widiwijayanti, C.**, A. Clarke, D. Elsworth and B. Voight, Geodetic Constraints on the Shallow Magma System at Soufrière Hills Volcano, Montserrat, *Soufriere Hills Volcano-Ten Years On, Scientific Conference, Montserrat, B.W.I., July, 2005*.
39. **Widiwijayanti, C.**, D Hidayat, B Voight, A Patra, EB Pitman, Modelling pyroclastic flows and debris avalanches on Montserrat with TITAN2D, *Soufriere Hills Volcano-Ten Years On, Scientific Conference, Montserrat, B.W.I., July, 2005*.
40. **Widiwijayanti, C.**, D Hidayat, B Voight, A Patra, EB Pitman, Modelling Pyroclastic Flows with Titan2D, *Cities On Volcanoes 4th Meeting, Quito, Ecuador, 2004*.
41. **Widiwijayanti, C.**, Voight, B.; Hidayat, D.; Patra, A.; Pitman, E. , Validation of TITAN2D flow model code for pyroclastic flows and debris

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