

YUNIATI ZEVI

• yuniz@udel.edu •

Home Address:
333 S. College Ave.
Riley Robb Hall
Newark, DE 19711
(302) 368-5224

Office Address:
208 Worrilow-Hall
University of Delaware
Newark, DE 19716
(302) 831-3364

Occupation Post Doc, Dep. Plant and Soil Sciences, University of Delaware, DE, USA.

Education

- **Ph.D**, Dept. of BEE, Cornell University, USA, 2008,
- *Master of Science*, Dept. of BEE, Cornell University, USA, 2003
- *Master of Science*, Dept. of Environmental Engineering, ITB, Indonesia, 1997
- *Bachelor of Science*, Dept. of Environmental Engineering, ITB, Indonesia, 1991

Research Experience

2002 – now • Colloid transport in unsaturated porous media.
1998 • Hydrodynamics Kinetic Study of Circulating Bed Reactor, Dep. of Environmental Engineering ITB and Inter-University Centers (IUC) on Biotechnology ITB
1997 • Biosorption of Chromium Contained in Electroplating Waste Water by Algae Biomass, Dep. of Environmental Engineering ITB
• The Kinetic Study of Azo Dye Degrading Micro-organism under Aerobic Conditions, Dep. of Environmental Engineering ITB
1995 • Anaerobic Biodegradation of Ethanol Industrial Effluent Using Hybrid Bioreactor, Hydrodynamics Kinetic Study, RUT Research, IUC on Biotechnology ITB
1994 • Development of Combination of Attached and Suspended Growth System in Anaerobic Hybrid Bioreactor for High Organic-containing Waste Water, Dep. of Environmental Engineering ITB
1993 • Performance of Dissolved Air Flotation in Removal of Grease & Oil Contained in Palm Oil Effluent, RUT Research, IUC on Biotechnology ITB
1991 • Removal of Suspended Solid of Granular Bed, Dep. of Environmental Engineering ITB

Published Works

Gao, B., T. S. Steenhuis, B.K. Richards, **Y. Zevi**, R.L. Fehrman, A. Dathe, J.L. Nieber, J.F. McCarthy (2007), Capillary Retention of Colloids in Unsaturated Porous Media, under review.

Zevi, Y., A. Dathe, B. Gao, B.K. Richards, T. S. Steenhuis (2006), Quantifying Colloid Retention in Partially Saturated Porous Media, *Water Resour Res*, 42, W12S03, doi:10.1029/2006WR004929.

DiCarlo, D., **Y. Zevi**, A. Dathe, S.K. Giri, T. S. Steenhuis (2006), In-situ measurements of colloid transport and retention using synchrotron x-ray fluorescence, *Water Resour. Res.* W12S05, doi:10.1029/2005WR004850.

Zevi, Y., A. Dathe, J.F. McCarthy, B.K. Richards, T.S Steenhuis (2005), Distribution of Colloid Particles onto Interfaces in Partially Saturated Sand. *Environ. Sci. Tech.*, 39(18); 7055-7064.

Steenhuis, T.S., A. Dathe, **Y.Zevi**, J.L. Smith, B. Gao, S.B. Shaw, D. DeAlwis, S. Amaro-Garcia, R.L.Fehrman, M.E.Cakmak, I.C. Toevs, B.M. Liu, S.M. Beyer, J.T.Crist, A.G. Hay, B.K. Richards, D. DiCarlo and J.F.McCarthy (2006). Characterization of transport and retention of biocolloids in unsaturated soils. *Biologia*, doi: 10.2478/s11756-006-0163-0

Steenhuis, T.S. J.F.McCarthy , JT. Crist, **Y. Zevi**, P.C. Baveye, J.A. Throop, R.L. Fehrman, A. Dathe and B.K. Richards (2005), Reply to "Comments on 'Pore-Scale Visualization of Colloid Transport and Retention in Partly Saturated Porous Media'" *Vadose Zone J* 4:957-958 (2005) DOI: 10.2136/vzj2005.0041

Crist, J.T., J. F. McCarthy, **Y. Zevi**, .P.C. Baveye, J.A. Throop, T.S. Steenhuis (2004), Pore-scale visualization of colloid transport and retention in partly saturated porous media. *Vadose Zone J.* 3(2), 444-450.

Crist, J.T., **Y. Zevi**, J.F. McCarthy, J.A. Troop, T.S. Steenhuis (2005), Transport and retention mechanisms of colloids in partially saturated porous media *Vadose Zone J.* , 4, 184-195.

Zevi, Y (1998), Biosorption of Chromium Contained in Electroplating Waste Water by Algae Biomass, Research Report, Dep. of Environmental Engineering ITB.

Djajadiningrat, A.H, Syafila M., Nobelia J., **Y. Zevi** (1997), Development of Combination of Attached and Suspended Growth Systems in Anaerobic Hybrid Bioreactor for High Organic-containing Waste Water, First year URGE Research Report, Dep. of Environmental Engineering ITB.

Zevi, Y (1997), The Kinetic Study of Azo Dye Degrading Micro-organisms under Aerobic Conditions, Master Thesis, Dep. of Environmental Engineering ITB.

Djajadiningrat, A.H, Muntalif, B.S, Sudrajat Arief, **Y. Zevi** (1995), Anaerobic Biodegradation of Ethanol Industrial Effluent Using Hybrid Bioreactor, Hydrodynamics Kinetic Study, RUT Research Report, IUC on Biotechnology ITB.

Wisjnuaprpto, Syafila M, **Y. Zevi** (1993), Performance of Dissolved Air Flotation in Removal Grease & Oil Contained in Palm Oil Effluent, RUT Research Report, IUC on Biotechnology ITB.

Zevi, Y (1991), Removal of Suspended Solid of Granular Bed, Dep. of Environmental Engineering ITB

Conference Presentation and posters

Zevi, Y., A. Dathe, B. Gao, M. E. Cakmak, B. K. Richards, J.-Y. Parlange, and T. S. Steenhuis (2006), Transport and retention of colloid particles in partially saturated porous media: effect of surfactant and ionic strength. *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract H54D-02.

Cakmak, M.E., **Y.Zevi**, V.L. Morales, J.L. Nieber, B. Gao, and T. S. Steenhuis (2006), Poster: Pore Scale Simulation of Fluid Flow and Colloid Transport in Porous Media, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract H54D-02.

Dathe, A., **Y. Zevi**, B. Gao, A.G. Hay and T.S. Steenhuis (2006), Direct Observation and Quantification of Colloid Retention in Unsaturated Porous Media, World Congress of Soil Science (WCSS) in Philadelphia

Zevi, Y., Dathe, A., Richards, B.K., Steenhuis, T.S. (2004), Visualization Of Colloids Distribution in Partially Saturated Media. Poster, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract H21D-1047.

Dathe, A., **Zevi, Y.**, Richards, B.K., Steenhuis, T.S., 2004. Visualization and Measurement of Colloid Movement and Retention in Unsaturated Media. Poster, *Eos Trans. AGU*, 85(47), Fall Meet. Suppl., Abstract H21D-1046.

Steenhuis, T.S., J. Crist, **Y. Zevi**, D. De Alwis, A. Marshal, T. Dittrich, S. Lyon, B. Gao, N. Peranginangin, J. Taylor, P. Baveye, J.-Y. Parlange, and J. McCarthy, (2002) Determining (Un)certainty in Modeling Colloid Transport by Visualization. AGU Fall Meeting. San Francisco, CA. Dec. 6-10.

Zevi, Y., Richards, B.K., Dathe, A., Steenhuis, T.S., 2004. Distribution of Colloid Particles onto Interfaces in Unsaturated Porous Media. Poster, *Eos Trans. AGU*, 85(17), Jt. Assem. Suppl., Abstract H21B-12.

Crist, J.T., **Y. Zevi**, J. Taylor, N. Peranginangin, B. Gao, S. Lyon, T.M. Dittrich, A.G. Marshall, D.DeAlwis, P.C. Baveye, J.Y. Parlange, J.F. McCarthy, and T.S. Steenhuis (2002). Visualization of colloidal transport in porous media. DIAS report 80 Plant Production, Colloids and colloid-facilitated transport of contaminants in soils and sediments, Tjele, Denmark.

Personal

Gender: Female; Nationality: Indonesian

Member of American Geophysical Union (AGU), Indonesian Society of Engineers (PII), Indonesian Society of Sanitary and Environmental Engineers (IATPI)