

2006-2008
**Scientific Presentations at Various International, National, and
Regional Conferences**

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2008

International

Bhowmik, P. C. 2008. Characteristics of *Polygonum cuspidatum*: An invasive species. Fifth International Weed Science Society Congress, Vancouver, BC, Canada, June 21-27, 2008. Abstract No. 38669

Bhowmik, P. C. 2008. Spread and management of quarantine and invasive weeds. Biennial National Conference of the Indian Society of Weed Science, Patna, Bihar, India, February 27-29, 2008.

Bhowmik, P. C. and D. Sarkar. 2008. Response of *Cyperus esculentus* to sulfosulfuron in turfgrass. Fifth International Weed Science Society Congress, Vancouver, BC, Canada, June 21-27, 2008. Abstract No. 38673

Biswas, P. K., M. M. Morshed and P. C. Bhowmik. 2008. Control of weeds in wheat field by applying allelopathic concept in Bangladesh. Fifth World Congress on Allelopathy, International Allelopathy Society, Saratoga Springs, NY, USA, September 21-25, 2008. Abstract no. 185, pp. 91

Tharayil, N. and P. C. Bhowmik. 2008. Presence that belies the persistence: A perspective on mediation of allelopathy by soils. Fifth World Congress on Allelopathy, International Allelopathy Society, Saratoga Springs, NY, USA, September 21-25, 2008. Abstract no. 33, pp. 39

Tharayil, N., P. C. Bhowmik and P. Alpert. 2008. The bittersweet paradox: Toxic allelochemicals also facilitate nutrient acquisition. Fifth World Congress on Allelopathy, International Allelopathy Society, Saratoga Springs, NY, USA, September 21-25, 2008. Abstract no. 174, pp. 89

National

Bhowmik, P. C. 2008. Preferential sorption of phenolic acids to soil and their allelochemical activity. 236th. American Chemical Society National Meeting, Philadelphia, PA, August 17-21, 2008. Abstract No. 1199472

Ghosh, S., B. Pan, P. C. Bhowmik and B. Xing. 2008. Sorption and influence of humic acid (HA) on colloidal stability of aluminium oxide nanoparticles. The Physical Chemistry of Environmental Interfaces. Abstr. No. 393. 236th. American Chemical Society National Meeting, Philadelphia, PA, August 17-21, 2008.

Abstract no.

Sanyal, D., P. C. Bhowmik, and H. K. Abbas. 2008. Common cocklebur (*Xanthium strumarium*) biocontrol by *Alternaria helianthi* as affected by surfactants. 48th. Annual Meeting of the Weed Science Society of America, Chicago, IL, February 3-8, 2008.

Sarkar, D., P. C. Bhowmik and M. DaCosta. 2008. Carbohydrate partitioning of creeping bentgrass as influenced by nitrogen fertilization and a plant growth regulator. Joint Annual Meeting of ASA-CSAA-SSSA, October 5-9, 2008, Houston, TX (Presented by Sarkar)

Sarkar, D., P. C. Bhowmik, Y. I. Kwon, and K. Shetty. 2008. Induction of antioxidant response system of three cool-season turfgrasses during cold acclimation. 48th. Meeting of the Weed Science Society of America, Chicago, IL, February 3-8, 2008. (Presented by Sarkar)

Shetty, K., S. Cheplick and P. C. Bhowmik. 2008. Small fruit phenolics and relevance for diabetes and hypertension management. 236th. American Chemical Society National Meeting, Philadelphia, PA, August 17-21, 2008. Abstract No. 1173295

Tharayil, N., P. Alpert and P. C. Bhowmik. 2008. Dual-purpose secondary compounds: Allelochemicals of *Centaurea* also increase nutrient uptake. 93rd. Ecological Society of America Annual Meeting, Milwaukee, WI, August 3-8, 2008. Abstr. No. 14092

Tharayil, N., P. C. Bhowmik and P. Alpert. 2008. Allelopathy as a corollary effect of resource acquisition mechanism: a case study with *Centaurea diffusa*. 48th. Annual Meeting of the Weed Science Society of America, Chicago, IL, February 3-8, 2008. (Presented by Tharayil). Abstr. No. 185

Northeast Regional

Sarkar, D., P. C. Bhowmik and M. DaCosta. 2008. Plant growth regulator and nitrogen affect seasonal carbohydrate partitioning in creeping bentgrass. 62nd. Annual Meeting of the Northeastern Weed Science Society, January 3-5, 2008, Philadelphia, PA. (Presented by Sarkar)

Bhowmik, P. C. and D. Sarkar. 2008. Biology of dodder: A noxious weed. 62nd. Annual Meeting of the Northeastern Weed Science Society, January 3-5, 2008, Philadelphia, PA. (Presented by Sarkar)

New England Regional

Bhowmik, P. C. Managing Moss: A challenging task. 15th Annual Turfgrass

Conference & Trade Show, Vermont Greenscape Association, December 4, 2007, The Fireside Inn & Suites, West Lebanon, New Hampshire.

2007

International

Bhowmik, P. C. and P. K. Jha. 2007. Importance of invasive plant species and its impact on biological resources. National Conference, Ecological Society of Nepal, Pokhara, Nepal

National

Tharayil, N., B. Xing and P. C. Bhowmik. 2007. Phytoavailability of allelochemicals as affected by companion compounds in soil-microbial systems. 47th. Annual Meeting of the Weed Science Society of America, February 13-17, 2007, San Antonio, TX. (Presented by Tharayil) Abstr. No. 310

Northeast Regional

Sarkar, D., P. C. Bhowmik, Y. I. Kwon, and K. Shetty. 2007. Evaluation of proline-linked pentose phosphate pathway in creeping bentgrass. 61st. Annual Meeting of the Northeastern Weed Science Society, January 2-5, 2007, Baltimore, MD. (Presented by Sarkar) Abstract no. 61:46

Bhowmik, P. C., D. Sarkar and N. Tharayil. 2007. Biology of multiflora rose: An invasive species. 61st. Annual Meeting of the Northeastern Weed Science Society, January 2-5, 2007, Baltimore, MD. (Presented by Sarkar) Abstract no. 61:66-67

Fidanza, M. A., J. A. Borger, M. B. Naedel, C. A. Bigelow, and P. C. Bhowmik. 2007. Preliminary study at four locations on using growing degree-days to apply a preemergence herbicide. 61st. Annual Meeting of the Northeastern Weed Science Society, January 2-5, 2007, Baltimore, MD. (Presented by Fidanza) Abstract no. 61:89

2006

International

Ghosh, S., S. Kang, P. C. Bhowmik, B. Xing. 2006. Mechanistic view of carbon sequestration on mineral surface. 18th World Congress of Soil Science Conference, North Eastern Branch Meeting. Philadelphia, PA, 2006.

Ghosh, S., S. Kang, P. C. Bhowmik, B. Xing. 2006. Adsorption of humic acid (HA) on minerals as examined by FTIR, NMR, and elemental analysis. 18th World Congress of Soil Science Conference, Philadelphia, PA, 2006.

National

Sanyal, D. and P. C. Bhowmik. 2006. Effect of surfactant on primisulfuron activity on common purslane and velvetleaf. 46th. Annual Meeting of the Weed Science

society of America, February 13-17, 2006, New York City, NY. Abstr. no. 350.

Sanyal, D., P. C. Bhowmik and K. N. Reddy. 2006. Effect of leaf characteristics of green foxtail and barnyardgrass on primisulfuron droplet spread. 46th. Annual Meeting of the Weed Science society of America, February 13-17, 2006, New York City, NY. Abstr. no. 288.

Tharayil, N., B. Xing and P. C. Bhowmik. 2006. Soil preferential sorption in allelopathy – a physical joint action paradigm. 46th. Annual Meeting of the Weed Science society of America, February 13-17, 2006, New York City, NY. Abstr. no. 285.

Northeast Regional

Bhowmik, P. C. 2006. Perspectives on teaching a large size class. 60th. Annual Meeting of the Northeastern Weed Science Society, January 3-6, 2006, Providence, RI. Abstract no. 60:29.

Bhowmik, P. C., D. Sarkar. and D. Riego. 2006. Activity of sulfosulfuron in controlling yellow nutsedge and quackgrass. 60th. Annual Meeting of the Northeastern Weed Science Society, January 3-6, 2006, Providence, RI. Abstract no. 60:86.

Cheplick, S., K. Shetty and P. C. Bhowmik. 2006. Strawberry phenolics and their effect on seed germination and vigor of weed species. 60th. Annual Meeting of the Northeastern Weed Science Society, January 3-6, 2006, Providence, RI. Abstract no. 60:39.

Ghosh, S., S. Kang., P. C. Bhowmik and B. Xing. 2006. Structure of humic materials on mineral surfaces. 60th. Annual Meeting of the Northeastern Weed Science Society, January 3-6, 2006, Providence, RI. Abstract no. 60:79.

Sarkar, D., P. C. Bhowmik and N. Tharayil. 2006. Characteristics and distribution of garlic mustard: An invasive species. 60th. Annual Meeting of the Northeastern Weed Science Society, January 3-6, 2006, Providence, RI. Abstract no. 60:51.

Tharayil, N. and P. C. Bhowmik. 2006. Physiological joint action of allelopathic compounds in plant bioassays. 60th. Annual Meeting of the Northeastern Weed Science Society, January 3-6, 2006, Providence, RI., January 3-6, 2006, Providence, RI. Abstract no. 60:72.