



**Pacific Regional Society of Soil Science**

**Pacific Regional Society of Soil Science**  
c/o the Faculty of Land and Food Systems  
University of British Columbia  
Room 266B - 2357 Main Mall  
Vancouver, B.C. V6T 1Z4

**Call for abstracts:**

The Pacific Regional Society of Soil Science invites you to submit the title and abstract of a poster on soils research for presentation at its Annual Meeting to be held at the University of British Columbia, Vancouver, BC, March 20<sup>th</sup> 2010. All fields of soil sciences and related disciplines are welcome. The **deadline** for submission is **February 15<sup>th</sup> 2010**.

A panel of soil experts will evaluate all posters and prizes will be awarded to the best three posters as follows:

First prize: \$300

Second prize: \$200

Third prize: \$100.

For further questions or inquiries, please contact Khaled Hamdan at [kah13@sfu.ca](mailto:kah13@sfu.ca).

**Instructions for abstract Submission:**

Abstracts should be submitted electronically to [kah13@sfu.ca](mailto:kah13@sfu.ca). Please use the following subject for your submission: PRSSS-abstract-Author (and replace author by your complete name).

Prepare abstract with extreme care, as it will be reproduced exactly as you submit it. Your abstract must not exceed 1,500 characters. Font style should be Times New Roman and font size should be 12.

Type authors and affiliations followed by the title. Underline the title and capitalize the first letter of each major word of the title. Capitalize the name of the person presenting the poster. Addresses should follow each author name. Start the text of the abstract on a new line without indentation. You can provide up to five key words at the end of the abstract.

Receipt of your abstract will be acknowledged by e-mail.

**Sample abstract:**

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Margaret Schmidt, Associate Professor, Department of Geography, Simon Fraser University, Burnaby, BC V5A 1S6.

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**Detection of Bigleaf Maple Spatial Influence on Forest Floor pH in Conifer Forest of Southwestern British Columbia**

This study aimed to detect the spatial characteristics of forest floor pH related to bigleaf maple (*Acer macrophyllum* Pursh) within conifer forest. A 24x24m plot, centered on an individual dominant bigleaf maple stem, was sampled at 124 systematic locations and tested for forest floor pH. To visualize overall spatial pattern, an interpolation was performed using kriging. Significant spatial pattern was characterized using both isotropic and anisotropic Moran's *I* correlograms. Forest floor pH seemed to have distinct concentric patterns near the stem, and pH had higher values in locations adjacent to the bigleaf maple stem. The isotropic correlogram showed a strong spatial autocorrelation and its shape indicated presence of a spatial gradient. The positively autocorrelated spatial pattern extended to higher distance classes between 112.5° and 157.5°. This study provides a characterization of forest floor pH spatial structure associated with bigleaf maple at plot scale. The findings of this analysis can assist in investigating and understanding some causal processes underlying the detected spatial pattern.

**Keywords:** bigleaf maple, forest floor, correlogram, krig map