For immediate release

BCS welcomes fourth Scholar-in-Residence

It is our pleasure to announce Colin Chapman as our fourth Scholar-in-Residence. Colin joins us from Australia, where he was recently appointed to the Victorian Academy of Teaching and Leadership as a Master Teacher.

An expert in the field of computational mathematics, he has taught and led workshops across the world, including in China, Switzerland, the Netherlands, France, and Canada. Colin is passionate about teaching and learning practices that bridge design practices, from the practical to modelling, and theory in ways that stimulate learning and unleash the joy of experimentation and discovery.

The BCS Scholar-in-Residence program is a standout in Canadian experiential learning. This endowed program, made possible by the generous support of the Eric T. Webster Foundation, Cynthia Baxter, KHC'52 and family, and the R. Howard Webster Foundation, fuels a spirit of innovation, an outside-the-box perspective, and a mindset focused on the advancement of knowledge, teaching, and learning at BCS for students and faculty alike.

Our Scholar-in-Residence program aims to encourage exploration and deeper understanding through contact with experts, scholars, and thought-agents of all kinds. These visiting scholars, who will take up residence on our campus for an extended period, will provide our students, faculty, and the entire BCS community the opportunity to be exposed to, learn from, and live side-by-side with masters of innovation, creation, and scientific discovery.

During their time on campus, our visiting scholars stay in the fully furnished Scholar-in-Residence apartment and have full use of the adjoining multi-purpose work and display areas in the lower level of Mitchell Family House.

Thank you, Colin, for joining us on Moulton Hill to share your passion and expertise, and to lead the following workshops with both teachers and students:

Teacher Workshop

Objective 1: Working with teachers on the necessity to be practitioners, not describers, of Mathematics.

Outline through activity the concept of modelling as a deep Mathematics engagement, that allows assessment of Mathematical dispositions beyond question/ response modalities. Examples:

- Model extreme weather events through the harmonic series and estimation processes and spreadsheet computation.
- Model heat loss through spherical modelling of surface area: volume. Explore the investigative possibilities with an emphasis on moving models towards less 'perfect' constructions to better reflect reality.

Objective 2: Enhancing computational thinking in mathematics at BCS: the skills we want our students to develop.

Explore a three-outcome model for Mathematical performance risk-taking and assessment:

- The student should be able to define and explain key concepts as specified in the content from the areas of study and apply a range of related mathematical routines and procedures.
- The student should be able to apply mathematical processes in non-routine contexts, including situations with some open-ended aspects requiring investigative, modelling, or problem-solving techniques or approaches, and analyze and discuss these applications of mathematics.
- The student should be able to apply computational thinking and use numerical, graphical, symbolic, and statistical functionalities of technology to develop mathematical ideas, produce results, and carry out analysis in situations requiring investigative, modelling, or problem-solving techniques or approaches.

MATHEMATICS CLASSES WITH STUDENTS

- ***Form II/ Grade 7 and Form III/ Grade 8:***
  Work on extended explorations of the implementation of logic structure in algorithms to collect and process data and effect responses. Minimal explicit teaching, with the focus being on problem-solving and solution interrogation in computation.
- ***Form IV/ Grade 9 and Form V/ Grade 10:***
  Work on algorithm-informed, single page, unplugged proofs of summation of infinite geometric series for specific cases, developing general solutions for all cases. Introduce simple programming tasks for measurement and response through IF, …THEN logic structures.

About Bishop's College School

Established in 1836 in Quebec, Canada, Bishop's College School (BCS) is an IB World School offering the International Baccalaureate Diploma Programme and certificates. With a 250-acre campus bordered by farmland and rolling hills on one side and by the city of Sherbrooke on the other, BCS is a small, welcoming community and a second home to students from over 40 different countries. We create a caring community of learning and development where cultures connect and individuals matter. By embracing a rigorous yet supportive academic program and a well-rounded education that includes athletics, the arts, leadership and development, and global citizenship, BCS is preparing students to become tomorrow's leaders. We offer a Bilingual Option (English and French), as well as the Duke of Edinburgh's Award program, and are a proud member of Round Square, through which students can go on exchanges and volunteer abroad.

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