

CWSF 2014 - Windsor, Ontario



Nicholas Paun

Chemlogic: A Logic Programming Computer Chemistry System

Challenge: Innovation

Category: Intermediate

Region: West Kootenay & Boundary

City: Slocan Park, BC

School: Mount Sentinel Secondary

Abstract: Chemlogic is a logic program for balancing chemical equations and converting chemical formulas to and from chemical names, using a database of chemical element and polyatomic group information, a set of grammars, and a linear equation solver. Chemlogic can detect and provide guidance for resolving syntax and other errors and has a user-friendly Web interface.

Biography

Nicholas Paun is a 16 year old high school student at Mount Sentinel Secondary, located in the Kootenay region of British Columbia. He is a computer programmer who enjoys automating interesting and repetitive tasks. Exploring geography is one of his main interests. Nicholas enjoys hiking in the beautiful mountains of the Kootenays, photography and travelling. In 2011, he presented at the Novell TTP Conference in Provo, Utah, where he won an award. He also developed and maintained his school's website and its Moodle system. Next on his agenda is a do-it-yourself facial recognition surveillance system. Nicholas currently has a 97% average. He plans to study Computer Science in university and work as a Computer Scientist.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100