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George Havas* (havas@csee.uq.edu.au), Centre for Discrete Mathematics and Computing, Computer Science and Electrical Engineering, The University of Queensland, 4072 Brisbane, Queensland, Australia, and **Colin Ramsay** (cram@csee.uq.edu.au), Centre for Discrete Mathematics and Computing, Computer Science and Electrical Engineering, The University of Queensland, 4072 Brisbane, Queensland, Australia. *Developments in coset enumeration.*

Coset enumeration is one of the fundamental tools for investigating finitely presented groups. We describe recent developments in computer coset enumeration: the advanced coset enumerator, ACE; the parallel advanced coset enumerator, PACE; and proof extraction after coset enumeration, PEACE. We indicate their capabilities and give some applications. (Received September 27, 2000)