

# Department of Mathematics and Statistics

## Colloquium Announcement

Wednesday  
March 15th 2017  
University of Saskatchewan

Geology Building  
Room 261  
1:30 PM

### Moonshine old and new

Guest Speaker: Dr. Terry Gannon  
University of Alberta

### Abstract:

The oldest and best known moonshine began with the equation  $196883+1=196884$ . This equation suggests an unexpected relation between modular functions and the Monster finite group. Borcherds' Fields medal was primarily for his work on this. More recently, identities such as  $45+45=90$  and (you guessed it)  $2 \times 10395 + 2 \times 3520 = 27830$  were discovered,  $45+$  which suggest a new and much more mysterious moonshine. My talk will start with the old, and end with the new. It is intended for a general audience.



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