



**Western University**  
**Department of Physics and Astronomy**

## **PHYSICS & ASTRONOMY COLLOQUIUM**

**Date:** **FRIDAY, 13<sup>th</sup> April 2018**  
**Time:** **1:30 p.m.**  
**Location:** **Physics & Astronomy Seminar Room 100**

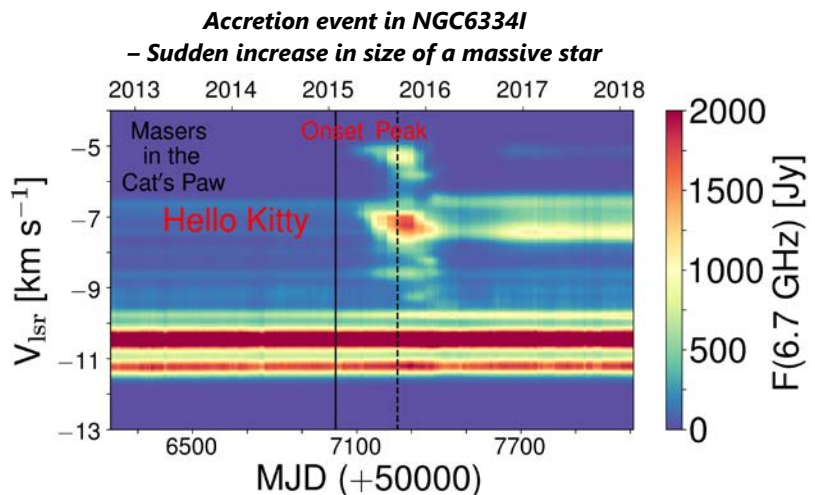
### **Dr. Gordon C. MacLeod**

Hartebeesthoek Radio Astronomy Observatory  
Krugersdorp, South Africa

### ***"Africa and Astronomy: Economic Development thru Science"***

#### **ABSTRACT**

I've been fortunate to work in various countries in Africa since 1991 and much of the time in either astronomy research or policy development. In terms of research I will present results of HartRAO's long-term maser monitoring program, focusing on two sources (G351.78-0.54 and NGC6334I) that confound our present understanding of masers. The results of this program, in particular the discovery of periodic methanol masers, have led to a renaissance of under-utilized, small, single-dish radio telescopes and the advent of the African VLBI Network. This presents an opportunity for economic development in developing countries. Lastly, I present the exciting prospects of tourism through astronomy atop Mount Kilimanjaro, we bill as "the last great site to be tested before we go to the Moon."



**COFFEE + light snacks will be available in the Atrium, 2nd floor, at 1:15 p.m.**