

# NAOC SPECIAL COLLOQUIUM

## The Mystery of Galactic Death: Why Star-Formation Stops in Galaxies

**Speaker:** Sandra Faber

*University Professor, UCSC, U.S.A.*

**Time:** Mar. 24<sup>th</sup>, Monday 2:30 PM

**Venue:** A601, NAOC



### *Honors:*

- Member of National Academy of Sciences
- Member of American Academy of Arts and Sciences
- Member of American Philosophical Society
- National Medal of Science By President Obama
- Heinemann Prize of AAS
- Bower Award
- Bruce Medal
- Karl Schwarzschild Medal
- Russell Prize of AAS

One of the major breakthroughs in galaxy formation has been growing knowledge of the arc of star formation throughout the lives of galaxies. Star formation is intense during the early phases, when gas is abundant, but is observed to decline later. The sharp decline in many galaxies is actually puzzling since enough residual gas exists in and near galaxies, even today, to fuel considerable star formation. This talk will review the data and theories for star formation "quenching" in galaxies at all redshifts, from early times to the present.