

# **Queensland Astronomy Education Conference**



Venue

### **Major Sponsors**

**Guided Tours** for Educational Groups \$7 per student, \$9 per adult



Visit 3 telescopes Interactive Exhibits Spectacular Scenic Nature Walk Gift Shop and Refreshments on site

CELESTRON Ultima 2000

GRACE OBSERVATORY

At Grace Lutheran College, we've had an interest in astronomy and space education for some years now. An observatory, with a 4.5m rotating dome, houses a Celestron (C-14) telescope and sits proudly atop our science block in the middle of the campus. It enables

students to view some of the many wonders of Creation from near-space objects such as the Moon and planets to faint deep-space objects including galaxies

planets to faint deep-space objects including galaxies and nebulous gas clouds.

We are also refurbishing a radio telescope that was originally part of an array at Narrabri in NSW This array was previously leased by NASA and used to study solar activity. It will be utilised within the science curriculum as a practical tool for gathering solar data, but it is also a wonderful piece of Australia's scientific heritage restored and preserved.

We believe strongly in solid heroretical science, and we enually upport the notion that theory must be

we equally support the notion that theory must be seen in practice to promote total learning as experienced in both our optical and radio observatories.

ph: 02 6842 6211

OPTICAL

We also stock

Bushnell binoculars & spotting scopes Bausch & Lomb binoculars & scopes Fujinon binoculars & spotting scopes York telescopes

& microscopes inifiers & low vision

Astronomy books

Tel: (07) 3252 2061

# "Excellence in Education through the Space Theme"

20th March

Do you want to achieve best practice in your teaching through a theme approach and get the most out of the new Science KLA Syllabus? If the answer is yes, then reserve Saturday, 20th March, 1999, to attend the fourth bi-annual Queensland Astronomy Education Conference. Expose yourself to the latest and best in "hands-on, minds-on" activities, and resources from the United States and Australia to bring out the best in your students and yourself.

"As more students and teachers became involved, the surer we were that space truly was a universal curriculum that touched on required skills at every grade level... The Cosmic Classroom project took the unifying theme of space and developed the knowledge and skills from mathematics, science, language arts, social studies and the fine arts..."

Cosmic Classroom Module D: 7-10 Space Center Houston (1998)

# **Programme**

Following the presentation by the Conference Keynote speaker, participants will be able to choose four sessions (out of a total of sixteen options) in which to participate. There will also be a presentation by a representative from the Queensland School Curriculum Council on the new Science K.L.A. Syllabus, the day being completed with a hands-on night observing session.

The following speakers have been confirmed as of 1st February, 1999. (Note that speakers' personal circumstances may cause this list to change, and this is beyond the conveners' control).

# Day Session

#### KEYNOTE SPEAKER

Ms Valerie Perry Education Officer, Mt. Stromlo Exploratory

Education Officer, Mr. Stromlo Exploratory

"Selling Astronomy"

This presentation will introduce you to the excitement of working in both a Visitors Information Centre and a Research Observatory. It contains "tricks of the trade" used in capturing the imagination of students of all ages.

"Selling Astronomy" is an anecdotal speech that will inspire one and all to try some of the practical ideas suggested to open up a whole new world of science teaching.

GENERAL

#### Introduction to the New 1-10 Science Syllabus

Maggie Spenceley

Queensland School Curriculum Council

tics and Science Education Centre for Mathe O.U.T. Kelvin Grove

Q.U.T. Relvin Grove

A Beginner's Guide to the Solar System
Brishane Astronomical Society

Making Learning Exciting: the Use of Astrono
in a Cross-curriculum Approach
Eva Carlon

Melbourne Planetarium — Science Works

A Beginner's Guide to the Rest: A Universal Update! Brisbane Astronomical Society 316 St Pauls Terrace

FortitudeValley

atterns in the Sky & the New Science K.L.A.

Syllabus (a portable planetarium session)
Paul Floyd
Southern Star Education

Southern Star Education

Stromlo Exploratory:
Ceducation Officer, Mt. Stromlo Exploratory
The "Cosmic Classroom"

Solar System Activities for the Classroom Brisbane Astronomical Society

The Stromlo Exploratory Hands On Teacher Resource Book

Valerie Perry Education Officer, Mt. Stromlo Exploratory

Practical Astronomy for Middle Primary ctivities for the New Science K.L.A. Syllab

Astronomy Education Via the Internet Professor Matthew Balles Swinburne Centre for Astrophysics and Super Computing

### **Activities**







# **Night Session**

The night programme (6.15 p.m. till late) will focus on providing practical observing experience using a variety of telescopes (including Grace Lutheran Collegés observatory) and other observing aids.

Various organisations will have displays on the day. These include: Mt. Stromlo Exploratory, York Optical, Brisbane Astronomical Socies Southern Star Education

# Displays

Introduction to Telescopes Anne-Louise Hawes Brisbane Astronomical Society

School Excursion to Mars

Minds on Physics, Hands on Rockets

Brisbane Astronomical Society Science Modules at Brisbane CSIROSEC CSIRO Brisbane Education Centre

# **Conference Websites**

Visit the conference conveners' websites (addresses at bottom of poster) for the latest conference information. You will find:

- CSIRO Double Helix Club activity information

  Double Helix members nationwide are carrying out an astronomy activity in the lead-up to the conference. Find out what they are doing.
- - Observing highlights for the night of the conference

# Free Resource Folder



The first 70 participants to register for the 1999 Queensland Astronomy Education Conference will receive a free 340-page resource folder containing teaching material and astronomical computer shareware.

These folders are being made available free, courtesy of funds provided by the Carning Machine Community Benefit Fund.

The folder will contain two of the cross-curriculum Cosmic Classroom modules produced by Space Centre Houston (a non-profit offshoot of NASA's johnson Space Centre). Each module contains cross-curriculum activities based on the Space 'theme. The activities (with ready-to-spo photocopy masters) are based around Bloom's Taxonomy and address the following unlifying themes of Science: structure, models, measurement, change, interactions and human effect. This material is likely never to be made available commercially.

Participants who register late (and miss out on receiving a free copy) will have the option of ordering a copy on the day.





## FUNDED BY



**GAMING MACHINE COMMUNITY BENEFIT FUND** 

**Investing in the Community** 

# Registration

#### REGISTRATION FEE

\$54.90 Note: Discounts are

Participant Folder (containing speaker notes and sponsors material).

Conference Resource Folder: The first 70 participants to register will receive a free

copy of the resource folder.

• Fully Catered Day: Morning and afternoon tea, lunch (spit roast) and dinner (B.B.Q.) are

CONFERENCE BENEFITS

**Photocopy** this

Complete the form below (one per person), enclose a cheque (made payable to the Brisbane Astronomical Society) or school order form and mail to: Q.A.E.C. '99 Registrations, Brisbane Astronomical Society, 34 Kilkenny Street, Acacia Ridge, QLD 4110. Further Information Will be mailed to you on 12th March, 1999.

form

ce registration fee of \$54.90 is enclosed as: 1. Cheque or 2. School order form (please circle)

### **BRISBANE ASTRONOMICAL SOCIETY**

34 Kilkenny Street, Acacia Ridge QLD 4110 Phone: (07) 3274 5073 E-mail: firstlight@uq.net.au Website: http://www.ozemail.com.au/~nwilliam/bas/bas.html



### **SOUTHERN STAR EDUCATION**

96 Doncaster Drive, Beechmont QLD 4211 Phone/Fax: (07) 55 333 610 • Mobile: 0408 884 380 E-mail: ssemps@ozemail.com.au
Website: http://www.ozemail.com.au/~ssemps