

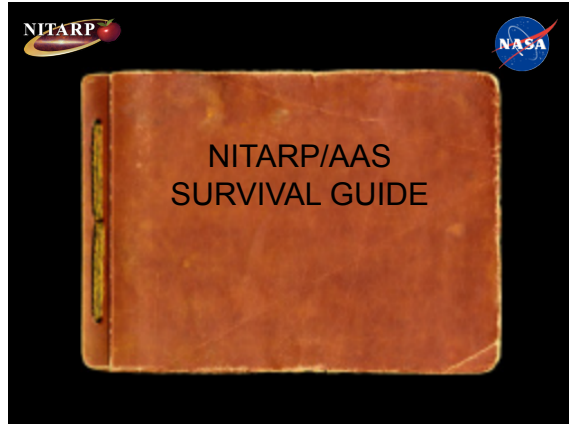



NITARP 

NITARP/AAS Workshop

A.K.A. What Did I Get Myself Into?!?!

John Gibbs
Glencoe High School
Hillsboro, OR
(Just west of Portland)

NITARP 

GIBBS Rule #1

Relax, go with the flow & enjoy the ride.*


*You are here for you!

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GIBBS Rule #2

One name, WANNETTA!


She will help you with anything travel related.
She is the best!

NITARP 

GIBBS Rule #3

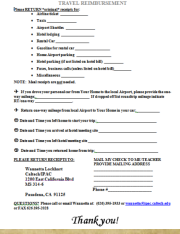
Remember to complete all of the forms after AAS, A.S.A.P.

- Reimbursement – to Wannetta
- AAS Worksheet – to Luisa
- AAS Evaluation – to Luisa

NITARP 

Reimbursement

- Fill it in, scan form & receipts & email them to Wannetta
- Then mail HOTEL & TRAVEL receipts to her



Thank you!

NITARP NASA

GIBBS
Rule #5

Bond with your team.

- Have some meals together
- Share some ideas, successes or needs

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GIBBS
Rule #6

Start keeping track of ACRONYMS!

NITARP is just the beginning.

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WISE MIPS SED
IRSA
IRAS IRAC IPAC
OMG!!! IDK!!!

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GIBBS
Rule #7

Remember Rule #1

RELAX,
enjoy yourself and take it all in.

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NITARP/AAS
SURVIVAL GUIDE

NITARP NASA

What comes after AAS?

- Weekly telecons
- Finalize project
- Literature review proposal
- Picking Student
- Prepare for trip & travel to Caltech
- Fall
- Make poster & have it printed
- AAS 2016 - Kissimmee, FL

Rule #1 – Relax!

Wannetta!!!



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Spring – Picking Students 2011




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Spring – Picking Students 2013



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Spring – Picking Students 2014



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Preparing for Caltech

Install the software and visit/explore the WIKI




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Preparing for Caltech

Spreadsheets: there are lots of versions of Excel and other software like Open Office.

Spreadsheet skills:

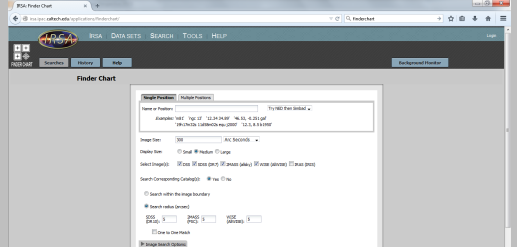
- Sort data
- Program equations
- Make plots
- Conditional formatting
- IF statements in Excel are also very helpful!

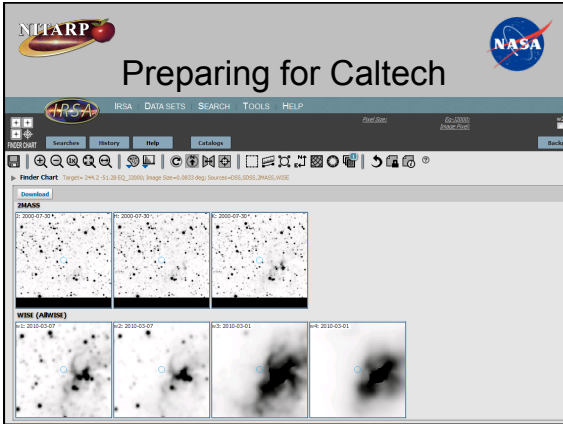


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Preparing for Caltech

Visit & Explore IRSA Finder Chart
<http://irsa.ipac.caltech.edu/applications/finderchart/>





Preparing for Caltech

- Remember the BIG PICTURE!
- Ask questions!
- Check the wiki!
- Communicate!
- We're all in this together, we are a team.

Preparing for Caltech

For the students:

- Practice using these resources with them
- Be careful and be selective, don't overwhelm them
- They don't have to do everything, but try to give them a taste of everything

Summer Trip – Work!

- Work together
- Help each other
- Use student expertise when possible

A photograph showing a group of students sitting at long tables in a computer lab, working on laptops. They appear to be engaged in a collaborative activity.


Summer Trip – Work!

- Work hard but take time to decompress
- Bond and become a team

A group photograph of approximately 15 students and staff members posing in front of the California Institute of Technology (Caltech) sign. The students are dressed in casual summer attire.


Summer Trip – Decompress!


A collage of images related to the summer trip. It includes a sign for "SURVEYOR RD" and "MARINER RD", the JPL (Jet Propulsion Laboratory) logo, a "ROVER XING" sign, and several photographs of students working in a laboratory setting, possibly related to rover development or testing.

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Summer Trip – Decompress!

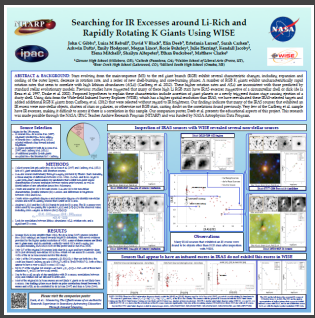
“If all mankind could look through that telescope, it would change the world!”
Griffith J. Griffith



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Fall – Preparing for AAS

PUTTING IT ALL TOGETHER




REMEMBER THE BIG PICTURE

NITARP 

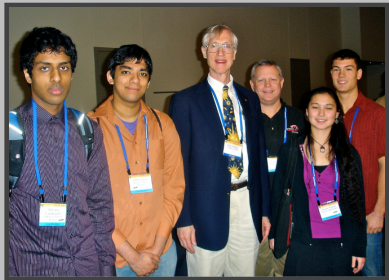
AAS Highlights 2012



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AAS Highlights 2012


Nobel laureate John Mather (COBE)



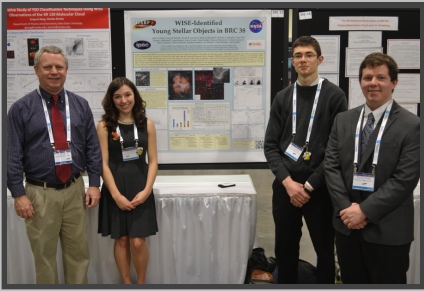
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AAS Highlights 2012



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AAS Highlights 2014



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AAS Highlights 2014



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AAS Highlights 2014

Neil deGrasse Tyson




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AAS Highlights 2015

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A.K.A. What Did I Get Myself Into?!

John Gray
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Hillsboro, OR
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IT WILL GET BETTER!

NITARP NASA

Deep Breath!

Relax

Remember Rule #1

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My Journey To NITARP

- Teaching for 29 years, last 15 at Glencoe
- Participated in Partners in Science 2001-02
- Proposed astronomy course in 2002, first offered in 2003
- Participated in A-RBSE in 2007
- Participated in NITARP 2011, 2013-15
- Just applied for SOFIA
- And what about ALMA?!?!


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Astronomy at Glencoe

Open to all, no prerequisites.

One semester

- 9 weeks of “How do we know anything about those tiny, little points of light in the sky?”
- 9 weeks of “Schmerdly Solar System Tours”




NITARP 

Astronomy at Glencoe

“How do we know anything about those tiny, little points of light in the sky?”

Welcome M26




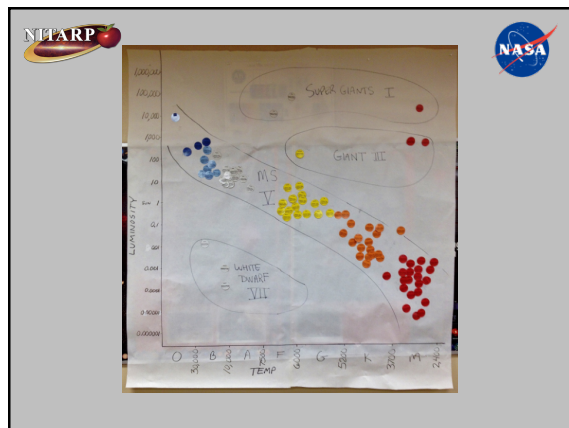
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Astronomy at Glencoe

“Investigating those little points of light.”

- EM Spectrum – Spectroscopes
- Wien’s Law & Color=Temp
- HR Diagram

IR R O Y G B V

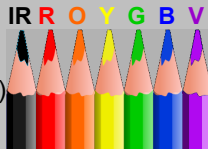
NITARP 


Astronomy at Glencoe

“Investigating those little points of light.”

- EM Spectrum – Spectroscopes
www.solar-center.stanford.edu
- Wien’s Law & Color=Temp (PhET)
- HR Diagram
- Magnitudes & Distances
- Open Cluster Project (M26) from A-RBSE

IR R O Y G B V



NITARP 

Astronomy at Glencoe

Open Cluster Project (M26)

- A-RBSE project – <http://www.noao.edu/education/arbse/>
- Aperture photometry with ImageJ
- Excel
- Reviews & expands what we have learned
- Class works as a team
- Intro to research with NITARP

