High School Teachers and Students Working with Astronomers on Current Research

NSTA National Harbor 2021

John Taylor
Senior Director of STEM Education
Ethos Innovation Center
Elkhart, Indiana
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Session Questions:

- Who is this Guy?
- What is NITARP?
- Do we really get to do real, current Research?
- Do students do any real science?
- How difficult is this to pull off?
- Why should I want to do this?
- How and When do I apply?
Who is this guy?
What is NITARP?

NASA / IPAC Teacher Archive Research Program

- Partners small groups of teachers with a mentor astronomer.
- Mission: to expose the public to “how science works” by experiencing the process of scientific research.
Research?  Yes!  Real Research.
Yes. Real research!
Yes. Real research!
Yes. Real research!
How difficult is this to pull off?

- Takes time: weekly or biweekly zoom sessions
- Well supported – peers and researchers
- Students optional (but, you will want to)
- Depends on your interest, (and of students.)
- You will get out what you put in.
- Funded by NASA – you (+ 2)
Why should I want to do this?

- It’s fun! And, addictive.
- You’ll learn real research astronomy. It will change your teaching.
- Friendships.
- PR: Get noticed—get on television, in the newspaper, in other media outlets.
- It makes you / your students look good, the program look good, and your school look good.
- Create future life opportunities for students.
- Provides opportunities for you in your school and other…
Timeline

Apply

Orientation at AAS (astro) Winter Meeting

Get accepted!

Start learning – research – meet – plan

Travel to Caltech

Write a research proposal – select students

Work on research

Present at next AAS Winter Meeting

Continue and share

Summer

Fall

Winter

Spring

Summer

Fall

Winter

Future>
What is NITARP?

Orientation at AAS #1
Applications come out during the summer.

https://nitarp.ipac.caltech.edu/
VERY Short course on Young Stellar Objects:

- Finding “Baby Stars”

Visible Blue to Red

Infra red →>>>

Far Infra red
Thank You!

John Taylor
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Senior Director of STEM Education
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Other Talks by ETHOS Innovation Center Staff

Thursday, November 11
11:00 AM - 12:00 PM

- **Hands-On Workshop**: Helping Teachers and Students Learn Science Through Picture Books!
- Convention Center - National Harbor 6

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Saturday, November 13
8:00 AM - 9:00 AM

- **Hands-On Workshop**: Welcome to the Inquiry Zone!
- Convention Center - Baltimore 5