

Scan & send out to ^{sub} group



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Bryant York's talk

Bryant is on
ETTR advisory
board

NSF

Education

ETTR

Jim Bailey games
cause 2nd life
to export into
h.s.

ENG

CISE

ERC's

STC's

SLC's

iPlant

\$50 Million

(mandated program from Congress)
- ATE
- Regional
- National
- Center of Centers
- Ad hoc
projects grants

help you
design &
center
proposal

originally, mandate

was "vocational training"

then in 2001-2002 the
language was updated ⇒ developing new
direction

vs. Advanced Technology Education
vs. Advanced Technological Education

Bruce
Scharer

games
(curric. dev.)
STEM
cyber-
learning
STEM
education
h. Scharer
mark

Jane Cooney

now a permanent
employee at NSF

Husband is in
Obama's Dept of Educ
(was in campaign)



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want to
operate on middle school to graduate
levels

10,000 teachers for 10,000 schools
to transform CS education at
the high school level.

- not just about programming
- Mitch Fry wrote grant that
was in ETIC

National ~~CSA~~ CSTA
CS teachers association

OCSTA oregon chapter

What does cyberlearning mean?

NSF has program on NSDL

may change
to stg else

national
screenes digital libraries

to put up content

not sure
if NSDL

Virginia Tech won't give permission
to allow you to ~~go~~ make back ups
of material, won't guarantee
its availability
- server down
- content gone



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NSDL — how to get people to contribute
— make google searchable

submit a proposal
↳ influences NSF direction

Games: mechanism for teaching STEM ideas

Cyber-learning

Applying games for teaching STEM ideas

Using new platforms/new infrastructure

- super computers } network of clusters
- clusters
- what else?

- Is infrastructure being fully utilized for learning/education?

How to improve infrastructure
to improve cyberlearning

Delivery of curriculum/funnel
students to UD courses.

C.C. - head PI

- co-PIs: 4-yr schools or high schools



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Don't write a proposal you are only going to submit once.

Unsolicited proposals can be submitted at any time!!
(to NSF)

If doesn't work there,
stg is coming out of Dept. of Edu.
White House can create programs.

ATE centers in line
to get STEM funding
from white house

DHS has some funding
on STEM (smaller sources
of funding)



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distributed model

content
delivery model
assessment
scalability

players

PSU } univ.
OIT }
OSU }

mt hood }
Lane } CC
chemeketa }
PCC }

academic
alliance
model

Grants

UafO

OIT

OSU-WME

IBM

ETIC - Bruce }
SAO - Techstart } h.s.
OCSTA } Chris Brooks

OGPC

CSTA (National)

BEC

Game
Development

Discrete

AI

Game learning

CS pathways
underrepresented

Bruce Shaffer