A hand with a white shirt cuff is pointing at a complex, multi-colored transit map. The map features numerous lines in blue, orange, yellow, red, and green, representing different transit routes. The background is a light, slightly blurred version of the same map.

# Pointers to other HTCondor References (\*HtCondor &)

Greg Thain

Center for High Throughput  
Computing

University of Wisconsin - Madison

# Welcome!

We're very happy to see everyone in person again!



# Special Thanks to ....

- Gabriele Fronzè – without whom we would not be here



### Cuneo - Wikipedia

**Cuneo** is a city and comune in Piedmont, Northern Italy, the capital of the province of **Cuneo**, the fourth largest of Italy's provinces by area. **Cuneo**.

Region: [Piedmont](#) Province: [Cuneo \(CN\)](#)  
Country: [Italy](#) Highest elevation: 615 m (2,018 ft)



### Images for cuneo

- tribunale cuneo
- cuneo italy
- attractions
- storia
- mappa
- ▼



Feedback

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### People also ask

- What is Cuneo famous for? ▼
  - What country is Cuneo? ▼
- Feedback

### Videos

Portale Istituzionale - Cuneo - Capitale Verde del Piemonte

**Area:** 119.7 km²  
**Weather:** 14°C, Wind N at 10 km/h, 98% Humidity [weather.com](#)  
**Population:** 56,124 (2017) [Istat](#)  
**Local time:** Monday 13:49  
**Postal code:** 12100  
**Province:** [Province of Cuneo](#)

Surname ▼  
▼

### Events

- Mon, Oct 10 14:00 HTCondor Workshop Autumn 2022 Casa Di Betania
- Fri, Oct 14 Italian Chestnut Fair – Cuneo Cuneo

HTCondor Workshop Autumn 2022 09:00

### People also search for

View 10+ more

- Province of Cuneo
- Piedmont
- Turin
- Alessand...

Feedback

# Second special Thanks to ....

Peter Couvares

Who taught **me** how to say in Italian: "I am an American"

*Non capisco niente*



Good news,

Bad News

Good News: HTCondor is powerful, and can do a lot of things

Bad news: Getting HTCondor to do what want may be tricky

Good News: The Internet has lots of information about HTCondor

Bad News: The Internet!



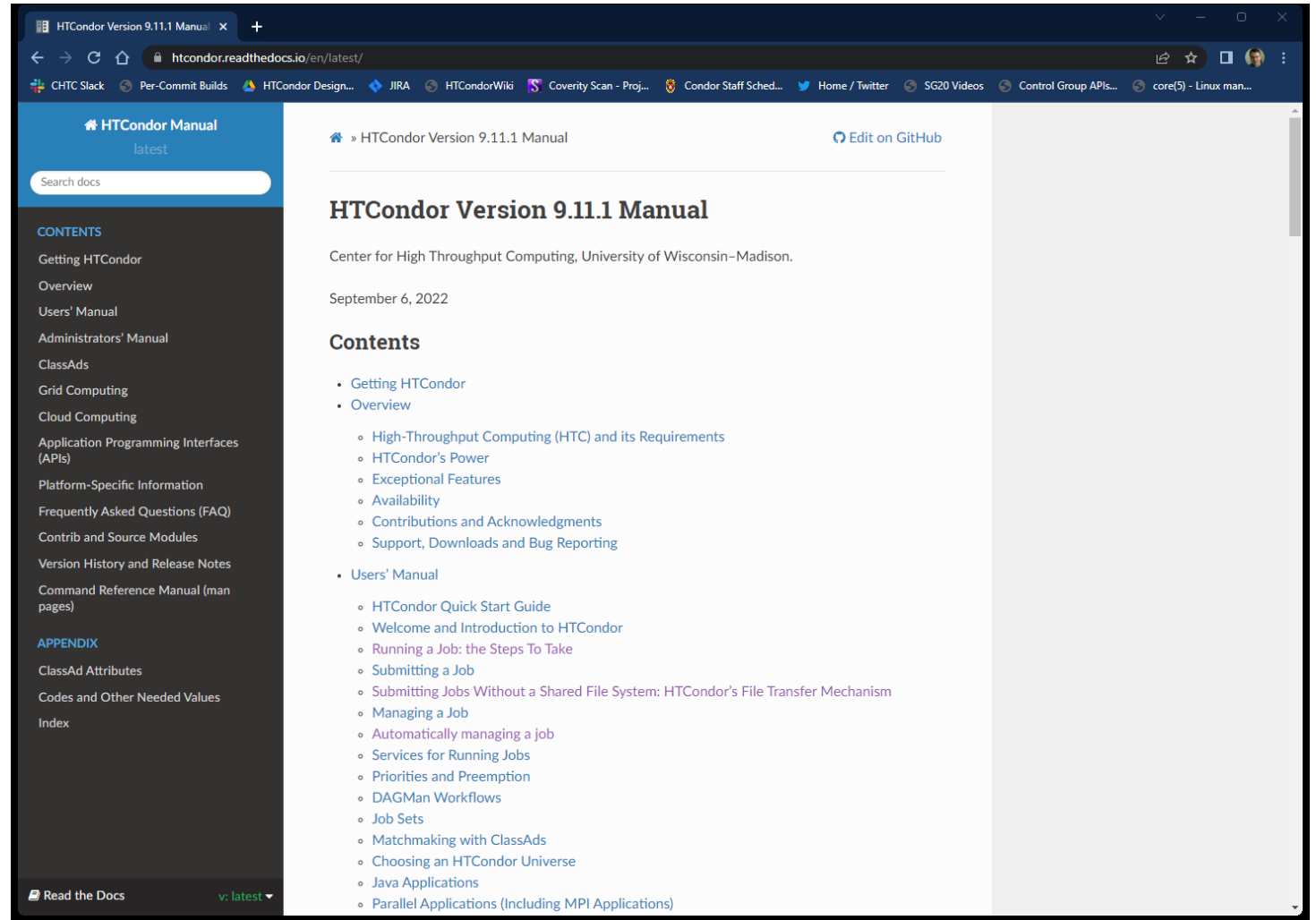
# Good sources of Information

- Please come talk to us! That's why we are here!
  - No question too small
  - Office hours:
    - Wednesday 11:45 & Thursday @ 11:40
  - But need not wait:
  - Or Lunch?
  - Or Before / After talks.
- "Us" → means whole community, not just few developers



# When all else fails.... Read the manual

- Getting better
- If confusing, let us know
- We take github PRs...



# <https://htcondor.readthedocs.io>



# What if I've read the whole manual?

---

The screenshot shows a web browser window displaying the HTCondor version history page. The browser's address bar shows the URL: `htcondor.readthedocs.io/en/latest/version-history/development-release-series-91.html#version-9-11-1`. The page has a dark blue header with navigation links: CHTC Slack, Per-Commit Builds, HTCondor Design..., JIRA, HTCondorWiki, Coverity Scan - Proj..., Condor Staff Sched..., Home / Twitter, SG20 Videos, and Control Group APIs... The main content area is divided into two columns. The left column is a sidebar with a list of version numbers from Version 9.11.1 down to Version 9.1.0, with a section for Version 9.0 LTS Releases and Version 8.9 Feature Releases at the bottom. The right column displays the release notes for the selected version, Version 9.11.1. The release notes are organized into sections: Release Notes, New Features, and Bugs Fixed. The Release Notes section for Version 9.11.1 states that it was released on September 6, 2022. The New Features section describes improvements to job attributes in the event of File Transfer errors, specifically mentioning `HoldReason` and `HoldReasonCode` and their re-purposing to `TransferOutputError` and `TransferInputError`. The Bugs Fixed section indicates that there were no bugs fixed in this version. Below the Version 9.11.1 section, the release notes for Version 9.11.0 are partially visible, showing its release date of August 25, 2022, and mentioning updates from Version 9.0.16 and the removal of support for the `WriteUserLog` class. The bottom of the page features a 'Read the Docs' logo and a 'v: latest' dropdown menu.

Version 9.11.1

Release Notes:

- HTCondor version 9.11.1 released on September 6, 2022.

New Features:

- Improved `HoldReason` and `HoldReasonCode` job attributes in the event of File Transfer errors. Previously if there was a problem with File Transfer, the job can go on hold with hold reason code `DownloadFileError` (12) or `UploadFileError` (13). Unfortunately, this did not distinguish if the error happened while transferring the job's input or output sandbox, which is what most people wanted to know. Thus hold reason code 12 and 13 have been re-purposed to be `TransferOutputError` and `TransferInputError` respectively, telling users the error occurred either while transferring the job input or output/checkpoint sandbox. (HTCONDOR-1134)

Bugs Fixed:

- None.

Version 9.11.0

Release Notes:

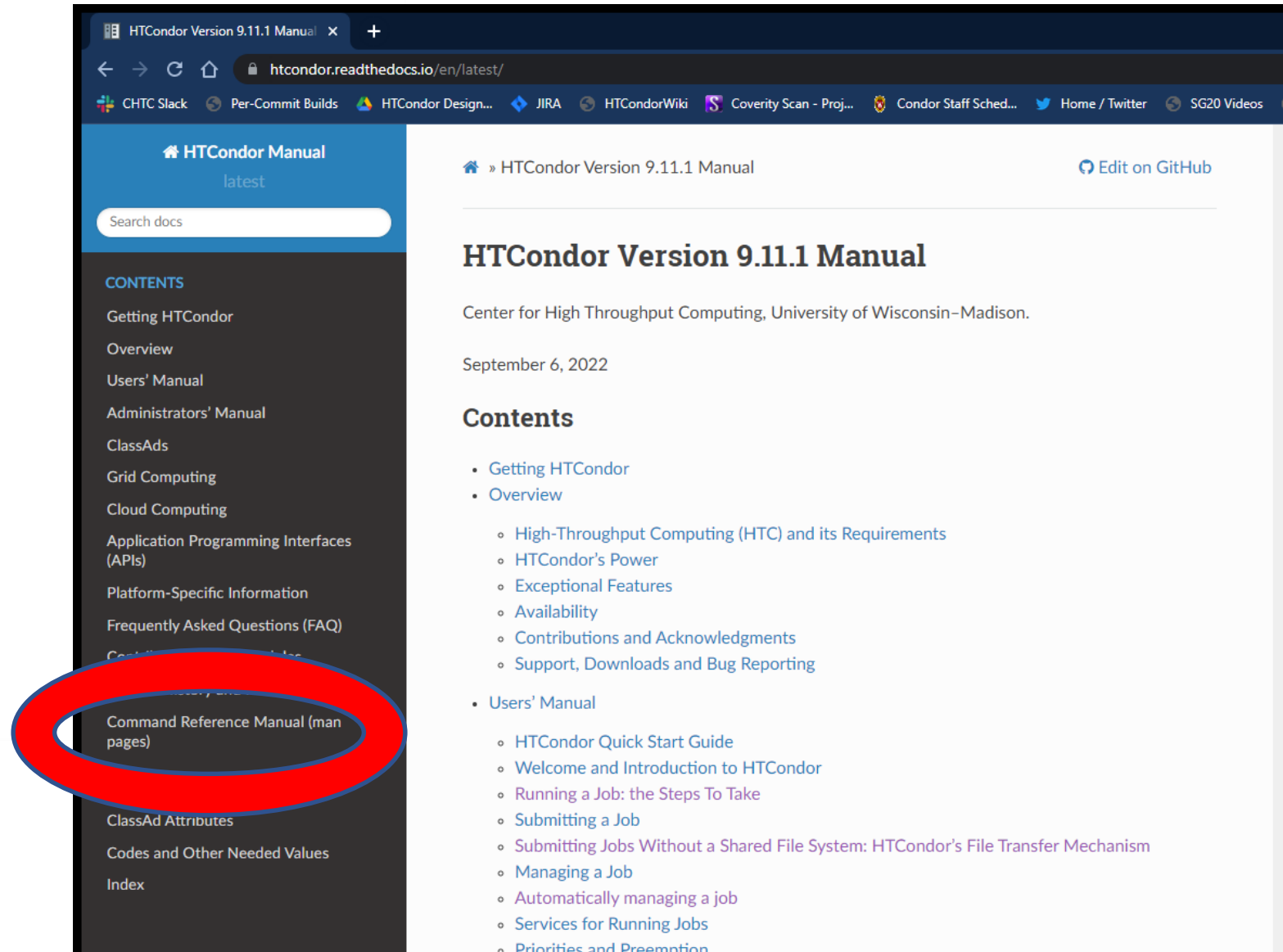
- HTCondor version 9.11.0 released on August 25, 2022.
- This version includes all the updates from Version 9.0.16.
- Removed support for the `WriteUserLog` class from `libcondorapi.a`. This class was difficult to use correctly, and to our knowledge it is not currently in use. Programmer who need to read the condor event log are recommended to do so from the HTCondor python bindings. (HTCONDOR-1163)

New Features:

- The format of GPU attributes in the Machine ClassAd has been modified to support the new `require_gpu` submit command. Added `-nested` and `-not-nested` options to `condor_gpu_discovery` and updated man page to document them and to expand the documentation of the `-simulate` argument. Nested output is now the default for GPU discovery. Added examples of new `condor.startd` configuration that is possible when the

## Release notes and Version History

# What if I can't read the whole manual?



HTCondor Version 9.11.1 Manual

latest

Search docs

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- Administrators' Manual
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HTCondor Version 9.11.1 Manual

Center for High Throughput Computing, University of Wisconsin-Madison.

September 6, 2022

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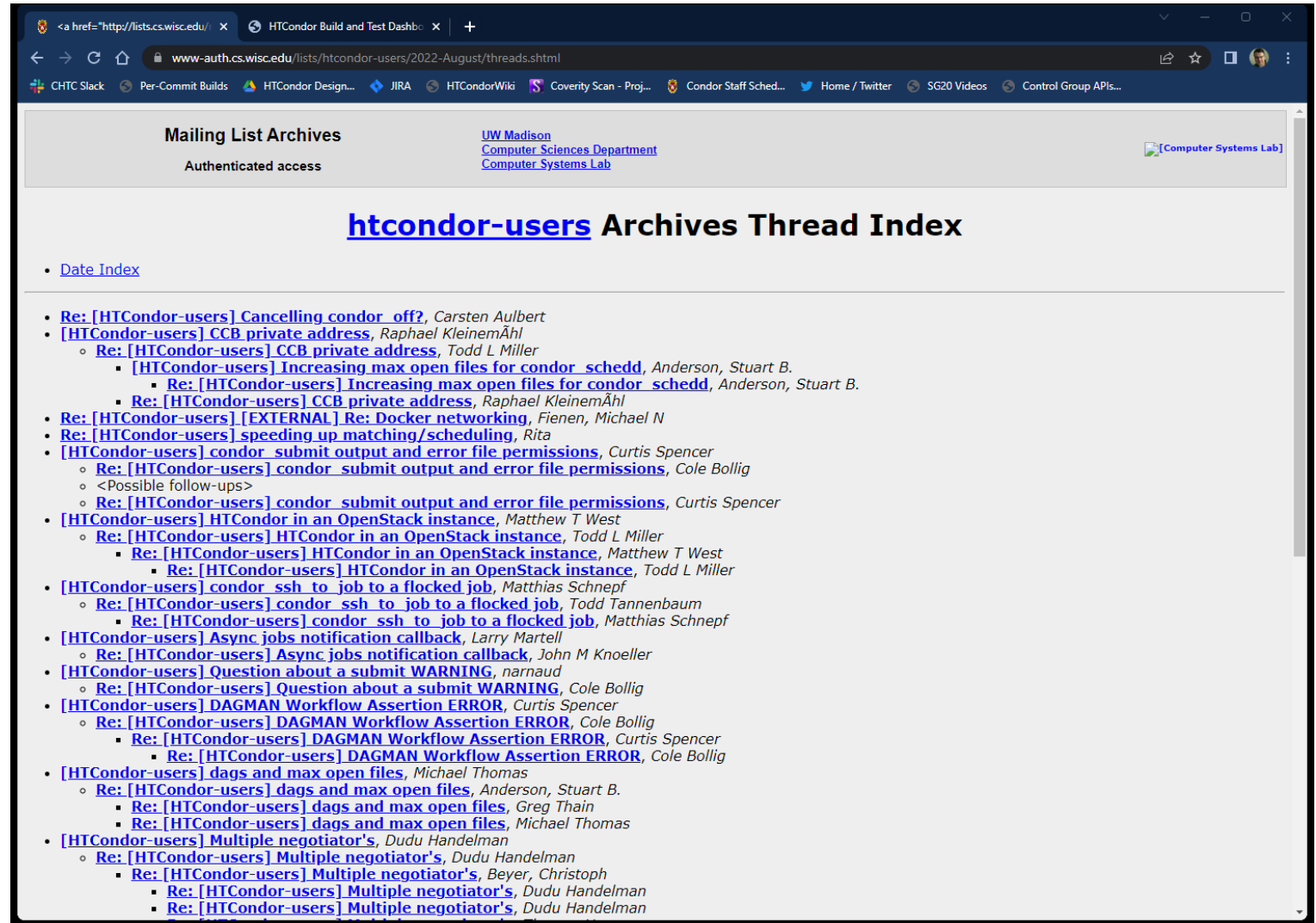
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  - Priorities and Preemption

## Command Reference Manual



# Htcondor- users email list

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<https://htcondor.org/mail-lists/#user>

# Command line help options

- `man condor_submit`  
`condor_submit --help`



YouTube!

The screenshot shows the YouTube channel page for the Center for High Throughput Computing. The browser address bar displays the channel URL: `youtube.com/channel/UCd1UBXmZlgB4p85t2tu-gLw`. The channel name is "Center for High Throughput Computing" with 263 subscribers. The page features a banner with the HT logo and the text "CENTER FOR HIGH THROUGHPUT COMPUTING". Below the banner, there are tabs for HOME, VIDEOS, PLAYLISTS, CHANNELS, and ABOUT. The main content area displays a playlist titled "HTCondor Week 2022" with four video thumbnails labeled "Day 1", "Day 2", "Day 3", and "Day 4". Below this, there is a section for "Helpful playlists" with three thumbnails: "Introduction to High Throughput Computing with HTCondor", "HTCondor Administrator Tutorials", and "Open Science Grid and HTCondor CE Tutorials". The left sidebar shows the YouTube navigation menu with options like Home, Explore, Shorts, Subscriptions, Library, History, Your videos, Watch later, and Liked videos. The bottom of the sidebar shows a list of subscriptions including CppNorth, SwimSwam, Seth Skorkowsky, CppCon, The Glass Cannon, Madison Aquatic Club, and Omri Cohen.

Center for High Throughput Computing

# HTCondor Twitter feed:

[twitter.com/HTCondor](https://twitter.com/HTCondor)

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The screenshot shows a web browser window with multiple tabs. The active tab is 'HTCondor (@HTCondor) / Twitter'. The address bar shows 'twitter.com/HTCondor'. The browser's bookmark bar contains links to 'CHTC Slack', 'Per-Commit Builds', 'HTCondor Design...', 'JIRA', 'HTCondorWiki', 'Coverity Scan - Proj...', 'Condor Staff Sched...', and 'Home / Twitter'. The Twitter interface shows the left-hand navigation menu with options: Home, Explore, Notifications, Messages, Bookmarks, Lists, Profile, and More. A blue 'Tweet' button is visible below the menu. The main content area displays the HTCondor profile. The profile header includes the Twitter logo, the name 'HTCondor', and '444 Tweets'. The profile picture is a cartoon condor head. To the right of the picture are icons for a menu, messages, notifications, and a 'Following' button. The bio states: 'The Open Source High Throughput Computing platform HTCondor, developed @UWMadison in @WisconsinCS. Working alongside @CHTC\_UW, @OpenScienceGrid and many others.' It also lists the location as 'Madison, Wisconsin, USA', the website 'htcondor.org', and the join date 'Joined November 2012'. Below the bio, it shows '110 Following' and '376 Followers'. A section titled 'Followed by' lists 'bbockelm, UW School of Computer, Data & Information Sciences, and 15 others you follow'. At the bottom, there are tabs for 'Tweets', 'Likes', 'Tweets & replies', and 'Media'. The 'Tweets' tab is selected, showing a tweet from 'Open Science Grid @opensciencegrid' dated 'Sep 29'. The tweet text is: 'Researchers using the OSPool come from ALL fields of #science. Not only #physics and #astronomy, but also biological sciences, #chemistry, #engineering, #earth and #ocean sciences, #economics and more.'



# Places NOT to look for information

- Stack overflow
- Random internet searches
  - Often out of date..



# Thank you and questions

Thank you – Questions?

But remember:

Non Capisco Niente

How do you want to get information?

