ORCHIDEE: Some news…

- **PROJECT – LEVEL news:**
  - Josefine is back ; shared "activities" with Xiaoni
  - Next Training (Jan 22) : declare yourself if you want to attend
  - Ongoing activity to redo some CMIP6 runs with ORC-V3 (N cycle)

- **Specific "Task forces":**
  - "Trunk forces" every Thursday morning (to improve the Trunk with forest dynamic, new RT scheme, hydraulic, etc)
  - "Evaluation" : regular meeting on Monday (Patricia & Bertrand)
  - "Spin up": to define emulators for spin up (Daniel G.)
  - "Routing" : to define a new high res. routing scheme (Jan, Agnes)
  - « New Driver » : to switch to have only new driver (Xiaoni)

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- **Sharing information**
  - Google document with important information (governance / list of people/ projects)
    https://docs.google.com/document/d/ 13R22r1fx0JoYKCojG1k3IM2C18RWuFNvxoYKdtacJEI/ edit#heading=h.xodt0i7kclgu

    ➔ To be updated for the list of people (section 5)

  - New ORCHIDEE articles:
    Continue to share new article using ORCHIDEE with the sharebox place
    https://sharebox.lsce.ipsl.fr/index.php/s/AhJk0Bk6rdySXKL

  - Check the "summary of the project meeting" (every Tuesday) at:
    https://forge.ipsl.jussieu.fr/orchidee/wiki/GroupActivities/Meetings/Weekly
    (ask orchidee-help if you don't have access)

News about new driver

General information (src_driver/orchideedriver.f90)
- The new driver code is quite different from the older driver
- Better addresses the issues related with time-averaged variables in the forcing files
- Can work with forcing files of various cell methods in forcing files, more flexible than the old driver
- More flexible to handle certain meteorological parameter
- Potential to expand to other forcing grids

Implementation in the trunk:
- Implemented and tested for the spinup analytic, transient simulation, and other simulations similar to fg2
- Works with the recent version of CRU JRA, WFDEI, CRU NCEP
- The default simulation configurations prepared and tested in spinupanalytic_fg1nd, fg1transnd, fg2nd, fg8nd etc, with recommended parameter values included
- Consistent results from the first comparisons with the old driver

Some useful information for the users of new driver:

- need the forcing files of previous, current, and next year: necessary data are available in IGCM
- In case of new forcing file, a script is available for usage in ORCHIDEE TOOLS
- Adjustable SPRED_PREC_SEC by users in PARAM/run.def
- Make sure of using correct calendar type for the forcing file, and appropriate number of MPI for simulation
- Does not need a restart file in the orchideedriver.card, while the old driver does have restart file in the orchidee_ol.card.
- https://forge.ipsl.jussieu.fr/orchidee/wiki/Documentation/Drivers for detailed inforation about the new driver

Implementation in Tag 2.2: