
NEWSLETTER for the **Carbonates-Biogenics Focus Research Group**



3 May 2017

Carbonate, siliceous, animal, vegetable,
and microbial geo- and eco-systems.

The **Annual Meeting** of the COMMUNITY EARTH SURFACE DYNAMICS MODELING SYSTEM (CSDMS) is just a month away. May 23 -25th 2017, Boulder Colorado, USA --
["http://csdms.colorado.edu/wiki/Form:Annualmeeting"](http://csdms.colorado.edu/wiki/Form:Annualmeeting)

So now is a good time for the Chairs to communicate with members of the **Carbonates-Biogenics Focus Research Group** (FRG "<https://csdms.colorado.edu/wiki/CMC>") on some of the activities at that meeting, and activities going on elsewhere on the earth's surface.

The FRG currently covers 109 members from many different parts of the world.

a. On **POPULATIONS** -----

At the meeting a joint session will be held of the **Ecosystem Dynamics FRG** and **Carb-Biogenics FRG**. The chairs are currently discussing the 'nuts and bolts' of how the two might work more closely together.

A theme with the active members of the C-B-FRG has been to bring population dynamics into carbonate sedimentological and geological models.

At the same time, both our groups are 'looking over the fence' at the **Human Dimensions FRG** because the natural world and human society are now inextricably entwined. This is certainly the case with coral reefs for tourism, fishing and the ocean's chemistry.

How should we express the twines in model systems for realistic and contemporary results ... and also to look to the future ?

Join us at the combined session on 23-25th May 2017 in Boulder. And/or offer ideas by email to us, the C-B FRG chairs.

b. On **NEW STUFF** -----

CoChair Burgess (Univ Liverpool, UK) reports new modeling capabilities at Royal Holloway College, London: (i) for fault controls on location and stacking of **carbonate platform strata**, (ii) a **microbial carbonate accumulation** forward model.

Co-Chair Jenkins has a review article in the *Hydrographisches Nachrichten* scoping how **simulation models with organism semantic data** could improve the near-seabed operational performance of survey and intervention technologies.

German "https://www.dhyg.de/images/hn_ausgaben/HN106.pdf",
English "http://instaar.colorado.edu/~jenkinsc/dbseabed/author_copies/HN_106_6-11_2017_EN.pdf".

At the IAS/ASF international sedimentologists' meeting for 10-12 October at Toulouse, France, a session on **Coupled Imaging and Modeling of Coral Frameworks embracing Video, CT Scan, and Sonar**. This will be chaired by Agostina Vertino and Daniela Basso (Università di Milano-Bicocca, also Ghent University), and Jenkins. Conference and session/abstract registration is still open but you will need to be quick!
(<https://www.sedimentologists.org/conferences>;).

Eric Hutton of CSDMS has begun **BMI'ing** some carbonate modules with a view to coupling them with other CSDMS Coastal and Marine models. ('Basic Model Interfacing' - see "http://csdms.colorado.edu/wiki/BMI_Description")

c. On the **NEWS** -----

The Seafloor Is Eroding Faster Than Scientists thought:

<https://www.scientificamerican.com/article/the-seafloor-is-eroding-faster-than-scientists-thought/>

The Great Barrier Reef is not actually dead:

<http://www.cnn.com/2016/10/14/us/barrier-reef-obit-trnd/> after

<https://www.outsideonline.com/2112086/obituary-great-barrier-reef-25-million-bc-2016>

New Loki Microbe is Closest Relative to All Complex Life:

<http://phenomena.nationalgeographic.com/2015/05/06/new-loki-microbe-is-closest-relative-to-all-complex-life/>

What is the earth-surface modeling angle on these ?

The chairs wish you a great year ahead,

Chris Jenkins - Boulder USA,
Peter Burgess - Liverpool UK