

Global Emissions Initiative

<http://www.geiacenter.org/>



Cathy Liousse

GEIA Co-Chair

Laboratoire d'Aérodologie, CNRS, Toulouse, France

Gregory Frost

GEIA Co-Chair

NOAA/Chemical Sciences Laboratory, Boulder, CO, USA

Claire Granier

GEIA Database Manager

NOAA/Chemical Sciences Laboratory, Boulder, CO, USA

University of Colorado/CIRES, Boulder, CO, USA

Laboratoire d'Aérodologie, Toulouse, France

Paulette Middleton

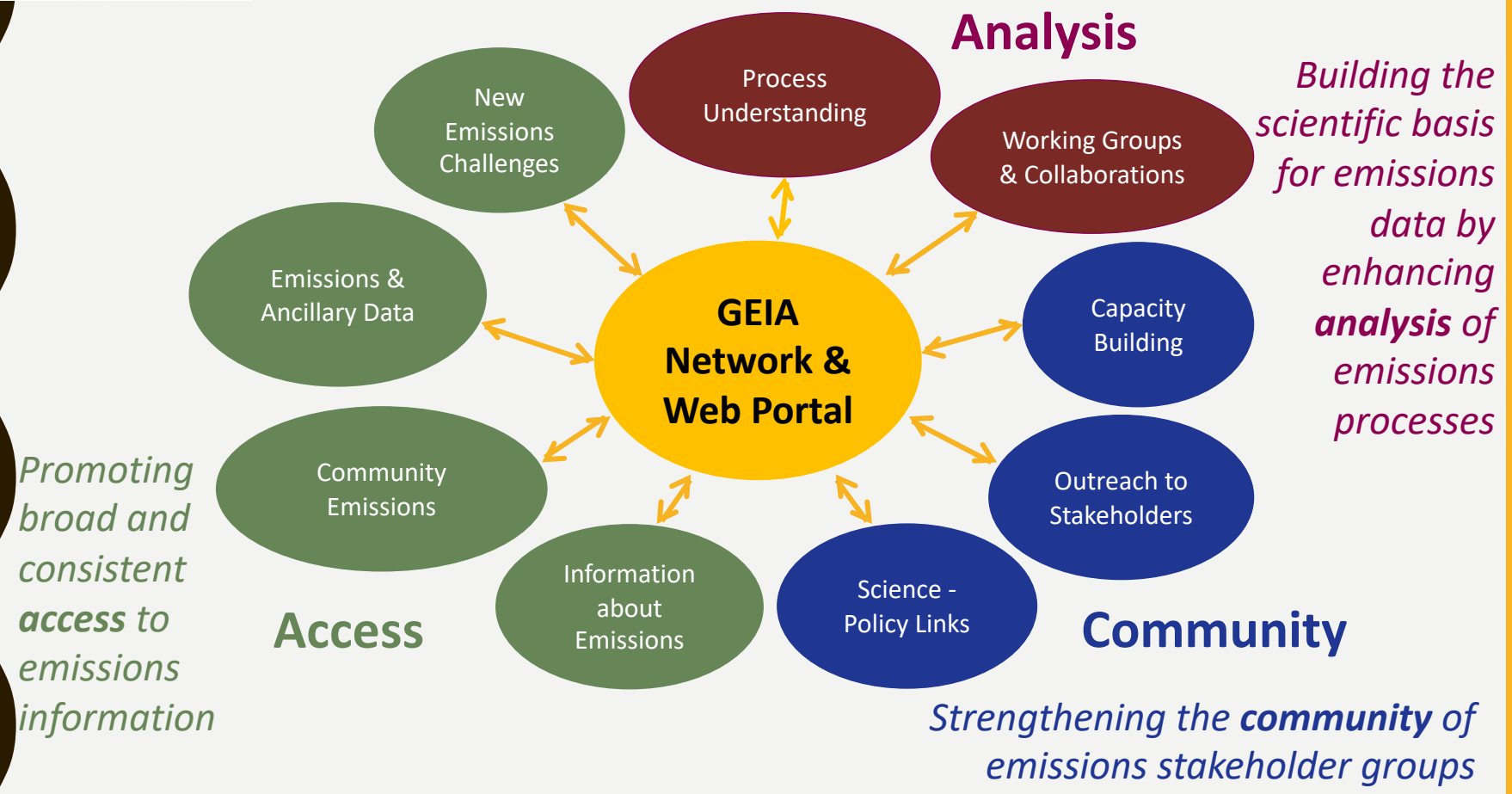
GEIA Network Manager

Panorama Pathways, Boulder, CO, USA

- Founded in 1990
- Community initiative
- Bridging science and policy
- Bringing together people, data, and tools
- Creating and communicating emissions information
- Key forum for emissions knowledge
- Serving stakeholders in rapidly evolving global society



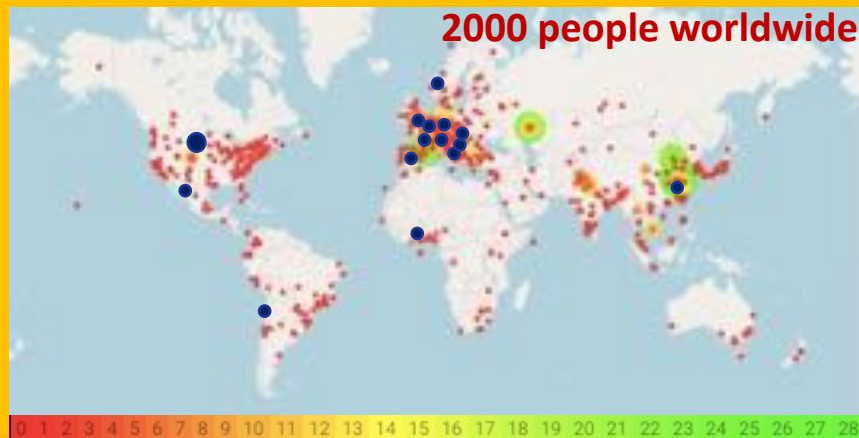
Core Activities



- Actions and decisions about the atmosphere focus on emissions
- We are in the Century of Accountability
- GEIA serves science and society

GEIA Community

Network



Connections



Scientific Steering Committee

Alexander Baklanov (*Switzerland*)
Beatriz Cardenas (*Mexico*)
Hugo Denier van der Gon (*The Netherlands*)
Gregory Frost¹ (*USA*)
Claire Granier² (*France, USA*)
Marc Guevara (*Spain*)
Nicolas Huneus (*Chile*)
Greet Janssens-Maenhout (*Italy*)
Monica Crippa (*Italy*)
Johannes Kaiser (*Germany*)
Terry Keating (*USA*)

Sekou Keita (*Côte d'Ivoire*)
Zbigniew Klimont (*Austria*)
Catherine Lioussé¹ (*France*)
Brian McDonald (*USA*)
Paulette Middleton³ (*USA*)
Katerina Sindelarova (*Czech Republic*)
Allison Steiner (*USA*)
Leonor Tarrasón (*Norway*)
Erika von Schneidemesser (*Germany*)
Yuxuan Wang (*China*)

¹ Co-Chair

² Database Manager

³ Network Manager

ECCAD data portal

<http://eccad.aeris-data.fr/>



ECCAD, GEIA's emissions data portal, provides consistent access to inventories and ancillary data with easy-to-use tools for analysis and visualization, to serve scientific research & assessment efforts.

GEIA working groups

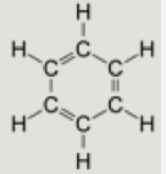
China Emissions WG (Contacts: K. He, Q. Zhang, Y. Wang)

- *Improving scientific basis for Chinese emissions*
- *Sharing results between Chinese research groups*
- *36 papers in ACP's East Asian Emissions Assessment*



VOC Emissions WG (Contacts: E. von Schneidemesser, H. Denier van der Gon)

- *Improving global understanding of VOC emissions*
- *Leveraging on-going inventory development, measurements, modelling*
- *Evaluating megacity VOC emissions speciation and sources*



Latin America/Caribbean Emissions WG (Contacts: N. Huneus, L. Dawidowski, N. Rojas)

- *Developing and evaluating LAC-specific emissions information*
- *Creating LAC regional emissions database and inventory*
- *Building LAC emissions expert community linked to global efforts*



Urban Emissions WG (Contacts: L. Tarrasón)

- *Leveraging techniques for urban emissions characterization*
- *Building capacity in megacities around the world*



Africa Emissions WG (Contacts: C. Leal-Liousse, S. Keita, M. Naidoo)

- *Creating a network of experts on African emissions*
- *Evaluating African-specific emission inventories*
- *Creating a regional database (fuel consumption, emission factors and inventories) and a continental wide African emission inventory*



COVID19 WG (Contacts: M. Guevara, B. McDonald)

- *Creating a network of experts on the quantification of COVID-19 emissions*
- *Providing guidance for the compilation of COVID-19 emission inventories.*
- *Developing and evaluating a mosaic of global and regional COVID-19 emission adjustment factors to quantify emission changes and perform modelling studies*



The Global Emissions Initiative and Accelerating Social Transformations

Themes

- Natural sources, Fires, Dust and Agriculture
- Top-Down Emissions and Satellite Analyses
- Development of Integrated Inventories & Evaluation of Air Quality Models
- Climate Change & Air Quality Assessments

By the Numbers

- 120 presentations
- 230 participants
- 39 countries represented

Highlights

- Developing new emission measurements and inventories
- Improving Top-down emission methodologies
- Evaluating uncertainties
- Determining and analyzing inventories across scales
- Understanding local emission impacts on air quality and climate

For more info, see:

- IGAC Newsletter Issue #67 (Sep/Oct 2020)
- <http://www.geiacenter.org/>
- <https://youtu.be/dCa7PrMaO8k>



Upcoming events

<http://www.geiacenter.org/>*



IGAC virtual conference (13-17 sept. 2021) :
a session will be dedicated to GEIA program
(more than 70 abstracts were submitted)

20th GEIA conference :
Date to be confirmed
Hosted by Royal Belgian Institute for Space Aeronomy
Belgium

*** : You are welcome to join the GEIA Network at this address to receive all the GEIA notices**