

# International Committee for Coal and Organic Petrology

## Commission II



Dispersed Organic Matter (DOM) in Sedimentary Rocks  
Classification, Identification and Thermal Maturity

➤ **The overall contributions**  
**(1995-2019):**

Borrego, A.G.,  
Hackley, P.,  
Hámor-Vidó, M.,  
Kalkreuth, W.,  
Mendonça Filho, J.G.,  
Petersen, H.I.,  
Pickel, W.,  
Reinhard, M (†) .,  
Suárez-Ruiz, I.,



Conveners: Jolanta Kus, Paul Hackley,  
Paula A. Gonçalves  
(2019 –)

72th ICCP Meeting  
Prague, 19 – 25 September 2021

# Dispersed Organic Matter (DOM) in Sedimentary Rocks Classification, Identification and Thermal Maturity



## The planned first-step activities (2019-2020):

1. Examine the present structure and content of the 12-th draft version
2. Get familiar with the suggestions made by Isabel
3. Make proposals, schemes, etc. to the overall structure of the draft with detailed comments on the content of each sub-paragraph (here: to define deliverables)
4. Circulate the new structure with the deliverables among all contributors for comments and suggestions and for general approval.

The activities in 2020-2021 could not be largely continued due to my  
Covid-related circumstance.

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# Dispersed Organic Matter (DOM) in Sedimentary Rocks Classification, Identification and Thermal Maturity



## The first-step activities (2021):

- ✓ 1. Make proposals, schemes, etc. to the overall structure of the draft with detailed comments on the content of each sub-paragraph (here: to define deliverables)
- ✓ 2. Circulate the new structure among all contributors for comments and suggestions and for general approval.
- 3. Define deliverables for each of the contributor

# Dispersed Organic Matter (DOM) in Sedimentary Rocks Classification, Identification and Thermal Maturity



## The first-step activities (2021):

### Dispersed Organic Matter (DOM) in Sedimentary Rocks – Classification, Identification and Thermal Maturity

ICCP-Publication – Draft Content – |

Incident Light Microscopy			Jolanta	Paul	Paula
<b>Introduction</b>					
<b>Rock types (Lithology)</b>					
<b>Sample types</b>	Outcrop				
	Core samples				
	Cutting samples				
<b>Sampling procedures</b>					
<b>Preparation of samples</b>	Physical sample preparation	Cleaning Drying Crushing Homogenisation Splitting			
	Whole rock preparation	Whole rock polished pellets			
	Kerogen preparation	Kerogen polished pellets			
<b>Maceral Concept</b>					
<b>Organic Matter Classification (ICCP-TSOP Classification)</b>	Huminite/vitrinite macerals				
	Liptinite macerals				
	Inertinite macerals				
	Zooclasts				
	Secondary Products				
	Reworked organic material				

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## The first-step activities (2021):

<b>Optical methods to evaluate thermal maturity of DOM</b>	Reflectance measurement – whole rock and kerogen concentrate - General	<b>Calibration of optical system</b> <b>Calibration of standards</b> <b>ISO, ASTM, DIN Norms, etc.</b> <b>Reflectance procedure</b>	
	Reflectance of vitrinite – whole rock	Vitrinite Maceral Classification Weathering and oxidation effects Reworking effects Caving & contamination Vitrinite-like Organic Matter Vitrinite identification Quantity, Quality, Size, etc. Thermal maturity determination Interpretation/Histogram Reflectance suppression Reflectance enhancement Precision & <b>Repeatability</b> <b>ICCP Accreditation Program</b> <b>ICCP WGs</b>	

# Dispersed Organic Matter (DOM) in Sedimentary Rocks Classification, Identification and Thermal Maturity



## The planned activities (2022):

1. Prepare first updated contributions for the selected sub-paragraphs.
2. Discuss the work flow and subsequent activities or tasks.



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