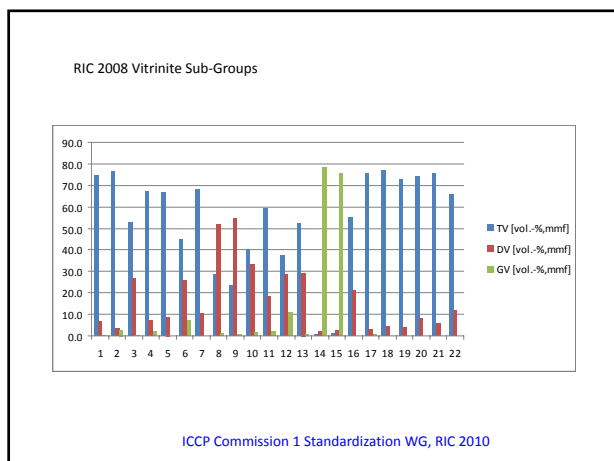


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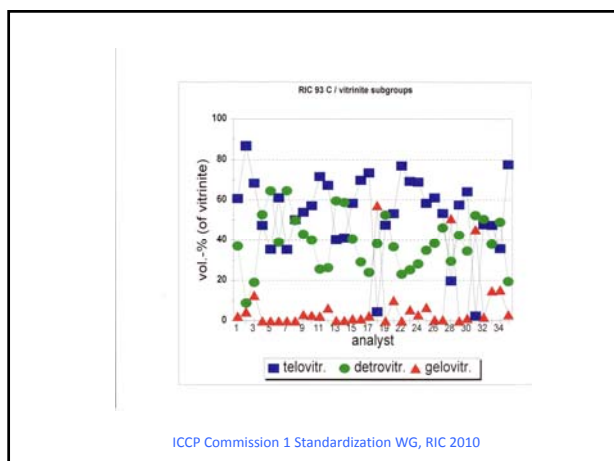


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analyst	TV [vol.-%,mmf]	DV [vol.-%,mmf]	GV [vol.-%,mmf]
1	74.7	6.9	0.3
2	76.7	3.5	2.7
3	52.9	26.9	0.2
4	67.7	7.2	2.0
5	67.2	9.0	0.5
6	45.1	25.7	7.3
7	68.2	10.6	0.5
8	28.4	52.0	1.0
9	23.5	35.1	0.8
10	40.4	33.4	1.4
11	59.6	18.3	1.8
12	37.4	28.4	11.0
13	52.5	29.2	0.6
14	79.8	2.2	78.2
15	19.8	2.5	75.6
16	55.3	21.2	23.5
17	76.0	3.1	0.8
18	77.2	4.2	0.8
19	72.8	3.9	0.8
20	74.3	7.6	0.5
21	75.5	6.1	0.5
22	66.1	12.0	0.9

VITRINITE SUB-GROUPS

ICCP Commission 1 Standardization WG, RIC 2010



ICCP Commission 1 Standardization WG, RIC 2010

Sydney, Sept. 5, 2010

Standardization Working Group Round Robin RIC 2010

Thank you for your interest in the recent round robin of the Standardization WG.

Following from the results of the previous RIC 2008 round robin with rather unsatisfactory results especially with the vitrinite maceral sub-groups this exercise is designed to tackle this problem. Images of the same sample as in RIC 2008 are distributed. Each image contains various circles and analysts are asked to identify the maceral sub-groups accordingly and report them to the attached report sheet. This should make sure that we are identifying exactly the same macerals.

The round robin sample is a Permian bituminous coal from Queensland (Australia) of medium rank b-c (according to ISO 11740, formerly also known as high volatile bituminous coal). The sample is from Gregory, Bowen Basin, German Creek Formation of late Permian (German Creek Seam).

Please report Telovitrinite (TV), Detrovitrinite (DV) and Gelovitrinite (GV) as by ICCP System 1994 and the very few others I marked, mainly to [help you locate during the exercise in the attached Excel spread sheet](mailto:walter.pickel@organicpetrolroy.com).

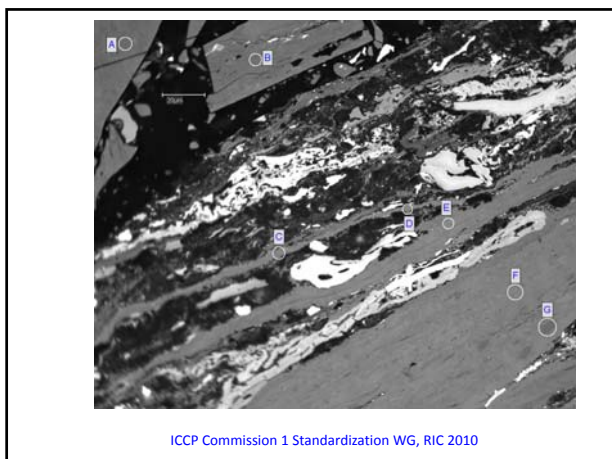
Please comment freely and send your result back by early 2011 to the attached e-mail address.

Looking forward to your results.

With best wishes

Walter Pickel
Convener of the Standardization Working Group
e-mail: walter.pickel@organicpetrolroy.com

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RIC 2010 Round Robin

Image no.	A	B	C	D	E	F	G	H	I	Comments
1										
2										
3										
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6										
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ICCP Commission 1 Standardization WG, RIC 2010

CD Content:

Ammended letter RIC 2010.doc
(instructions)

Images (47, bmp)

Template results (xls)

Gramado presentation of RIC 2008

Belgrade presentation of RIC 2010

ICCP Commission 1 Standardization WG, RIC 2010

TELOVITRINITE

Origin of term
Term introduced by the ICCP 1994 to denote vitrinite with cell structure. This structure may or may not be apparent in reflected white light. Derivation: *tela* (L)-tissue; *vitrum* (L)-glass.

Related terms
Transmitted light microscopy: anthraxylon; humotelinite (brown coal).

Definition
Telovitrinite is a subgroup of the maceral group vitrinite, comprising vitrinites with preserved botanical cell structures which may or may not be visible.

Comment. The subgroup comprises the macerals telinite and collotelinite which are distinguishable by their different degree of geochemical gelification (vitrinitization). The former consists of clearly recognizable cell walls; the latter is of more or less structureless form which, in sections more or less parallel to the bedding may be of considerable areal extent and without linear margins. When viewed perpendicular to the bedding collotelinite appears as layers of varying thickness.

ICCP System 1994

ICCP Commission 1 Standardization WG, RIC 2010

DETRIVITRINITE

Origin of term
Term introduced by the ICCP 1994 to denote particulate vitrinitic substances. Derivation: *detritus* (L)-abrasion, *vitrum* (L)-glass.

Related terms
Transmitted light microscopy: translucent humic degradation matter; humodetrinite (brown coal).

Definition
Detrovitrinite is a subgroup of the maceral group vitrinite consisting of finely fragmented vitrinitized plant remains occurring either isolated or cemented by amorphous vitrinitic matter.

Comment. To this subgroup belong the macerals vitrodetrinite and collodetrinite. The former describes the clearly visible and separate particles of vitrinite, occurring isolated or cemented by amorphous vitrinitic matter or minerals; the latter describes aggregates or a groundmass of vitrinite in which boundaries of individual particles can no longer be distinguished without etching because of gelification. Where the outline of individual particles of detrovitrinite is discernible, particle size is less than 10 micron in the maximum dimension for rounded grains. Elongate remains representing fragments of cell walls should have a minimum dimension of less than 10 micron.

ICCP System 1994

ICCP Commission 1 Standardization WG, RIC 2010

GELOVITRINITE

Origin of term
Term introduced by the ICCP in 1994 to classify a subgroup of macerals originated from the jelling of humic solutions and not corresponding to specific plant tissues. Derivation: *gelu. us* (L)-frost, stiffening (of bodies due to age), *vitrum* (L)-glass.

Related terms Humocollinite (brown coal).

Definition
Gelovitrinite is a maceral subgroup of the maceral group vitrinite consisting of colloidal infillings of vitrinitic material in former voids.

Comment. The subgroup consists of the macerals corpogelinite and gelinite. The former describes discrete bodies representing mainly the primary phlobaphentic infillings of cell lumens occurring *in situ* or isolated within the coaly or mineral matrix; the latter describes secondary homogeneous infillings of microfissures, cleats or other formerly empty spaces. The size is variable.

Note. Dispersed organic bodies or infillings within telinite with a lower reflectance than that of the surrounding collodetrinite or enclosing telinite component are excluded from gelovitrinite.

ICCP System 1994

ICCP Commission 1 Standardization WG, RIC 2010

Standardization WG, 65th ICCP, August 2013, Sosnowiec, Poland

Image no.	A	B	C	D	E	F	G	H	I	Comments
1	TV	TV	TV							
2	TV	TV	TV							
3	DV	TV	TV	TV						
4	DV	TV	TV	TV						
5	TV	TV	DV	DV	TV	TV	TV	TV		
6	DV	DV	TV	TV	TV	TV	TV	TV		
7	TV	TV	TV	TV	TV	TV	TV	TV	DV	
8	DV	TV	TV	TV	TV					
9	TV	TV	DV	TV	TV					
10	TV	L	DV/DV	TV	TV					REFER COLUMN B
11	TV	DV/DV	TV	TV	TV	TV				REFER COLUMN B
12	TV	TV	DV	TV	TV					
13	L	TV	DV	TV						
14	DV	TV	TV	TV						
15	TV	TV	TV	TV						
16	DV	DV	TV	TV						
17	DV	TV	TV	TV	TV	TV				
18	TV	TV	TV	TV	TV	TV				
19	DV	L	TV	L	TV	DV	DV	TV		
20	TV	L	DV	DV						
21	TV									
22	TV	TV	DV	TV	TV					
23	TV	TV	DV/DV	DV	DV/DV	TV				REFER COLUMN B&E
24	TV	TV	TV	DV	TV					
25	L	TV	TV	TV	TV					
26	TV	TV	TV	TV	TV					
27	DV	DV	DV/DV	TV	TV	DV	DV			REFER COLUMN C
28	TV	TV	TV	TV						

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Image no.	A	B	C	D	E	F	G	H	I	Comments
29	TV	DV	TV	DV	TV					
30	TV	TV	DV	TV						
31	TV	TV	TV	TV	DV					
32	TV	TV	TV	L						
33	TV	TV	DV	TV						
34	TV	DV	TV	TV						
35	TV	L	DV	TV						
36	TV	TV	TV	TV						
37	TV	DV	DV	TV	TV	DV	L			
38	TV	DV	DV	TV	DV					
39	TV	TV	TV	TV	TV					
40	TV	TV	TV	DV	TV	TV	TV			
41	DV	DV	DV	TV	DV	DV	TV			
42	DV	DV	L	TV	L	TV	TV			
43	TV	TV	TV	DV	TV	DV	TV	TV	L	
44	TV	TV	DV	TV	DV	DV	DV	TV	L	
45	TV	DV	TV	TV	TV					
46	TV	DV	TV	TV	DV	DV	DV			
47	TV	DV	DV	TV	DV					

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Sydney Lab less than 2% disagreement

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Still to do:

Ask for more results?
Get results of a group rather than individuals?
Review each image with results

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Preliminary conclusion:

Disagreement on a telo-/detrovitrinite level appears to be a fact of life.

Question:

Do we have a way to improve this????

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