



Welcome & News UGM 2018

UGM - 21/09/2018

Jesus College - Cambridge (UK)

S. Happel

Radiopharmacy
and
Nuclear Medicine

Environment and
Bioassay

Geochemistry
and
Metals Separation

Decommissioning



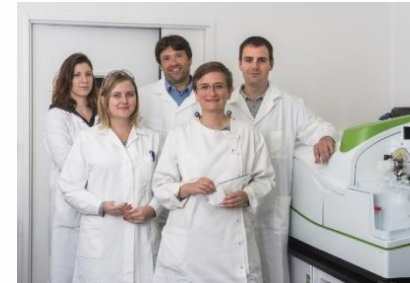
News since last European UGM

- New facilities
 - Larger production lab
 - 2 R&D labs incl. Synthesis lab (=> presentation N. Maudoux)
 - New equipment (e.g. ICP-MS, TOC,...)
 - Integration of QC
- New colleagues
 - R&D funds from French BPI
 - Now 19 (± 1 , $k=1$) employees, still hiring...
- New products (presentations A. Bombard / S. Happel)
- New website / social media   
- New YouTube channel: Video Tutorials with sub-titles 

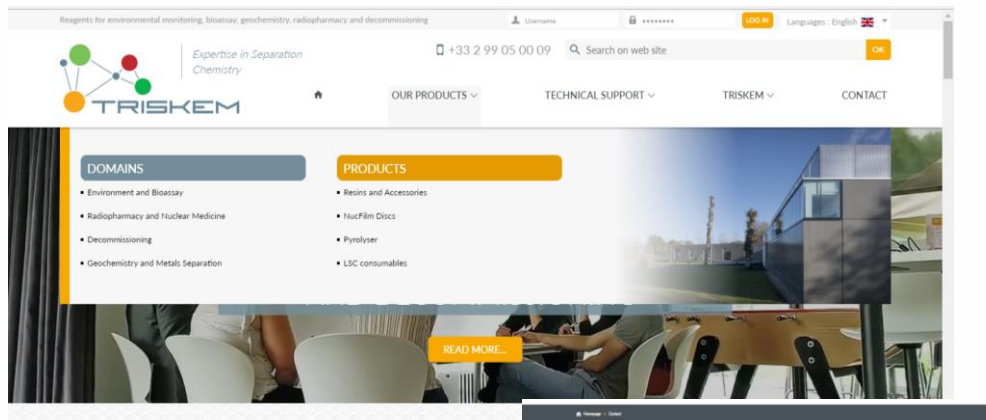


New colleagues/organisation

- Sales: **Laurine Gallo & Alice Machmachi**
- Production: **Adrien Bodéré**
- Key Account / TechSupport / R&D: **Aude Bombard**
- R&D (& QC): **Nicolas Maudoux, Laure Phelippeau, Marine Bas & Anabella Mocanu (PostDoc)**
- R&D / TechSupport / QC: **Soumaya Khalfallah**



New Website



Posters and Presentations

Please find here a selection of posters and presentations given during conferences and workshops. For additional information please do not hesitate to contact us.

Posters

[Dela et al., On the development of a method for the isolation of Selenium, MSEC 2018](#)

[Dela et al., On the direct determination of radioiodides and ²²³Rn from urine samples, BMCC 2018](#)

[Dela et al., On the development and characterization of an ionochrome based extraction chromatography resin, BMCC 2018](#)

[Baker et al., LSC, LSC-TOF analysis: characterization and application for trace determination of ²²⁶Ra in environmental samples, MSEC 2018](#)

[Dela et al., Characterization of a TRU resin and its application to the separation of ²³⁸U, BMCC 2018](#)

Our products



NucFilm Discs
Rapid screening for alpha emitters such as the ²²⁸Ac using thin film discs



Environmental Monitoring and Bioassay



Radiopharmacy and Nuclear Medicine



Geochemistry and Metals Separation

STEP 1 Choose your contact

Quotation Request
Request a quotation for your products and services.

Request technical support
Request technical support for your products and services.

R&D Cooperation
Request R&D cooperation for your products and services.

Our distributors

Environmental monitoring and Bioassay

Triskem's extraction chromatography resins allow the separation and determination of radioisotopes (e.g. actinides and fission products) from **bioassay samples** and **environmental matrices** (e.g. soil, sediment, vegetation and wastewater samples).

They use allow a **rapid and precise determination** of radioisotopes in **emergency and routine situations**, as well as, combined with suitable sample preparation methods, to obtain very low detection limits through analysis of large volume samples.

Our products are a **standard technology** in radiochemistry used by international accredited laboratories and monitoring agencies. A number of **ready-to-use methods and applications** are available online. For more information please also refer to the enclosed flyer.

Our R&D team is working on the development of new resins and methods in order to help you with your separation needs. Having a **special separation need**, willing to participate in a **R&D project** or looking for a partner to commercialize a **new technology** you have developed, please do not hesitate to contact us at contact@triskem.fr.

PRODUCTS APPLICATIONS*

PRODUCTS	APPLICATIONS*
EX-Resin	Actinides separation / gross alpha measurement, Ue
CL-Resin	CS-136, radioiodine, Ag
TRU-Resin	Am, Actinides, Y, Sr, Ra, Pu
LSC-Resin (LSC-TOF)	Lanthanide separations, Pu-238
TRU-Resin	U, Pu
TRU-Resin	Organic traces removal
TRU-Resin	U, Pu, Th
TRU-Resin	U, Pu, Th

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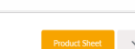
Environmental Monitoring and Bioassay



Radiopharmacy and Nuclear Medicine



Geochemistry and Metals Separation



AUTO-DEPOSITION KIT

* Applications: Sample preparation for alpha spectrometry



CL RESIN

* Applications: Separation of chloride and iodide • Properties: Density : 0,37 g/ml



CL Resin, 100 g bottle

Reference: CL-8100-A | Particle size: 100-150 µm

CL Resin, 100 g bottle

Reference: CL-8100-L | Particle size: 150-300 µm

CL Resin, 100 g bottle

Reference: CL-8100-S | Particle size: 50-100 µm

TRU RESIN

Applications

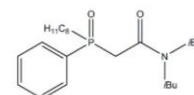
- Separation of actinides
- Separation of iron

Physical and chemical properties

- Density: 0,37 g/ml
- Capacity: 7 mg Nd/g Resin TRU
- Conversion factor CheV: 1,82

Conditions of utilization

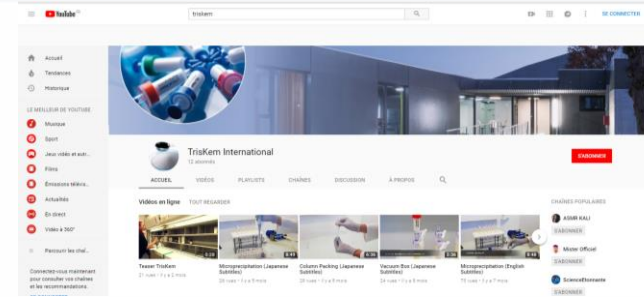
- Recommended T of utilization: 20-25°C
- Note: Using TRU Resin in conditions below 18°C or above 24°C may have an impact on yields and flow rates. Separations should be performed whenever possible at temperatures between 20-25°C.
- Flow rate: A grade 0,8 - 0,9 mL/min, utilization with vacuum or with pressure for 1 grade resin
- Storage: Dry and dark, 1-3°C



COLUMNS	BOTTLES	CARTRIDGES
TR10-C20-A Resine TRU, columns (10 ml), 20 units Particle size: 100-150 µm	TR5-C20-A Resine TRU, columns (5 ml), 20 units Particle size: 100-150 µm	
TR8-C20-A Resine TRU, columns (8 ml), 20 units	TR-C20-A TRU Resin, columns (2 mL), 20 units	

- November 2018: « E-commerce »
 - Basket, online quote requests
 - Access to order status/history/CoAs, MSDS... via login
 - Credit card payment
 - Feedback/comments/suggestions please!

- Four video tutorials on [YouTube channel](#)
 - Column packing, Use of packed columns, Use of vacuum box, Microprecipitation
 - Subtitles in 5 languages (EN, FR, DE, RU, JP - ZH soon)
 - Other topics?
 - Interest in Webinars, online/video TechSupport, Hangouts,...?



➤ New products and applications

➤ Resins (=> presentations A. Bombard / S. Happel)

- Updates on TK100, CL, CU, CS Resins,...
- ZR Resin => mainly radiopharmacy (Zr, Ga, Ti, Ge)
- TK200 Resin => Actinides, radiopharmacy (Ga-67/8, Zn, Pt,...)
- TK400 Resin => Pa,...
- DGA Sheets => QC of radionuclides by TLC
- CS Resins (AMP-PAN & KNiFC-PAN)
- Nucfilm Discs now produced in-house
- More new resins e.g. TK201, TK202, TK-TcScint (PS Resin range => UB),...
coming soon...
 - Naming of new resins...

➤ New products and applications

➤ Consumables

- New 2 mL column funnels (one piece)
- PEEK columns
- Empty cartridges (1 mL, 2 mL, 8 mL, 12 mL)
 - Interest in 2 mL Luer-Lock cartridges?
- Looking into 4 position vacuum box
- ZR crucibles
- DGA and CU Resin now also available as packed columns
 - Packing from aqueous EtOH solutions



9:00 - 9:20		Reception & Coffee
9:20 - 9:30	S. Happel	Welcome & News
9:30 - 9:40	N. Maudoux	TrisKems new Synthesis Lab
9:40 - 10:00	A. Bombard	New developments TrisKem 1
10:00 - 10:30	X. Hou	Application of extraction chromatography in determination of hard to measure radionuclides for environmental radioactivity, characterization of decommissioning waste and radiopharmaceutics
10:30 - 10:55	S. Maxwell	Recent developments in the analysis of actinides, Sr-90 and Ra-226 from difficult matrices
10:55 - 11:20		Coffee break
11:20 - 11:45	P. Warwick	Measurement of ³⁶ Cl and ¹²⁹ I in decommissioning wastes
11:45 - 12:10	S. Maxwell	Rapid Method for Po-210 in Urban Matrices
12:10 - 12:30	P. Ivanov	Studies on the use of TK400 resin for the separation of Pa231 from actinide elements and decay products
12:30 - 14:00		Lunch break
14:00 - 14:20	C. Gilligan	Preparation of a ²³³ Pa standard for uranium age dating measurements by MC-ICP-MS. (using TK400 resin)
14:20 - 14:45	Ben Russell	Extraction Chromatography Separation of Technetium-99
14:45 - 15:10	J. Garcia / A. Tarancon	Radionuclide determinations with PSresin (separation and detection), MASS (automated separation) and WaterRadd (continuous detector)
15:10 - 15:35		Coffee break
15:35 - 15:50	J. Thomson	The future of LSC Cocktails without NPE's
15:50 - 16:05	V. Binns	Implications of REACH on LSC Cocktails
16:05 - 16:25	I. da Silva	Production and separation of ¹⁶⁵ Er from natural Ho target on Orléans 'Cyclotron
16:25 - 16:45	S. Happel	New developments TrisKem 2
16:45 - 17:00		Q&A

- Certificate of attendance will be sent as pdf file after UGM
 - Please sign attendance sheet and fill e-mail address
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Have a very nice meeting!

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