

НАСТАВНО-НАУЧНОМ ВЕЋУ
УНИВЕРЗИТЕТ У БЕОГРАДУ -
ХЕМИЈСКИ ФАКУЛТЕТ

Универзитет у Београду
ХЕМИЈСКИ ФАКУЛТЕТ
Бр. 530/3
02-07-2024 год.
БЕОГРАД

Поштоване колегинице и колеге,

На седници Наставно-научног већа Универзитета у Београду - Хемијског факултета одржаној 13. јуна 2024. године, изабрани смо у Комисију за писање Реферата за ангажовање др Јан Шварцбауер-а, редовног професора Универзитета у Ахену (Rheinisch-Westfälische Technische Hochschule, RWTH Aachen University, Aachen, Germany), као гостујућег професора (Visiting Professor) на Универзитету у Београду и на Универзитету у Београду - Хемијском факултету.

На основу документације, а у сагласности са Правилником о условима и начину ангажовања гостујућег професора на Универзитету у Београду који је Сенат Универзитета донео 9. маја 2007. године, Правилником о изменама и допунама Правилника о условима и начину ангажовања гостујућег професора који је Сенат Универзитета у Београду усвојио 22. јануара 2014. године, Законом о високом образовању (члан 66) и Статутом Универзитета у Београду (чланови 129 и 134) подносимо Наставно-научном већу Хемијског факултета Универзитета у Београду следећи:

РЕФЕРАТ

Основни подаци

Јан Шварцбауер је рођен 26. маја 1966. године у Хамбургу (Hamburg, Germany). Студије хемије завршио је 1993. године на Универзитету у Хамбургу, где је и докторирао 1997. године из области органске хемије.

Универзитетска каријера др Јан Шварцбауер-а од самог почетка се одвија на Универзитету Ахену (RWTH Aachen University). За доцента (Habilitation, Assistant Professor) је изабран 1998. године, за ванредног професора (Priv.-Dozent, Associate Professor) 2004. године, а од 2009. године је редовни професор (Full Professor) из области органске геохемије и хемије животне средине.

Др Јан Шварцбауер је од 1998. године руководио истраживачке групе за органску хемију животне средине ("Organic Environmental Chemistry"). Био је на функцији „декана за студије“ на Факултету за георесурсе и инжењеринг материјала (Dean of Studies

- Faculty of Georesources and Materials Engineering, RWTH), где држи наставу из предмета из области органске геохемије и хемије животне средине.

Истраживачки рад др Jan Schwarzbauer-а се одвија у Лабораторији за органско-геохемијске анализе Института за геологију и геохемију нафте и угља Универзитета у Ахену (Laboratory for Organic Geochemical Analyses, Institute of Geology and Geochemistry of Petroleum and Coal, RWTH Aachen University, Lochnerstrasse 4-20, 52056 Aachen, Germany, Tel.: +49 241 8095750; Fax.: +49 241 80695750; E-mail: jan.schwarzbauer@emr.rwth-aachen.de).

Истраживања професора Schwarzbauer-а се одвијају у следећим областима:

- 1) Органске загађујуће супстанце у речним водама и седиментима: порекло, расподела и судбина (organic pollutants in riverine water and sediments: origin, distribution and fate).
- 2) Проучавање структуре и карактеризација непознатих контаминаната (structure elucidation and characterization of unknown contaminants).
- 3) Органско-геохемијска карактеризација макромолекулске органске супстанце у речним системима и земљишту (organic geochemical characterization of macromolecular organic matter of riverine systems and soils).
- 4) Изотопска анализа органских полутаната (compound specific isotope analysis, CSIA of organic pollutants).
- 5) Геохронолошка испитивања загађења органским полутантима у речним системима (geochronology of organic pollution in riverine systems).
- 6) Анализа синтетичких полимера у земљишту и седиментима (analysis of synthetic polymers in soils and sediments).
- 7) Анализа биомаркера у нафтама и екстрактима матичних стена за нафту и угљева, и анализа керогена у матичним стенама за нафту и угљевима (biomarker analysis in oils and extracts of source rocks and coals, and analysis of kerogen in source rocks and coals).
- 8) Хемијска карактеризација макромолекулске органске супстанце у фосилним горивима (chemical characterisation of macromolecular organic matter in fossil fuels).

Објављени научни радови и научна саопштења на међународним скуповима

Списак књига, поглавља у књигама и научних радова проф. Schwarzbauer-а дат је у прилогу овог Реферата.

У издању реномиране издавачке куће Springer-Verlag проф. Schwarzabauer је објавио 13 књига (већина са карактеристикама научне монографије). Објавио је и 10 поглавља у књигама. Према Scopus-овој бази података на дан 28. 06. 2024. објавио је укупно 208 радова. У приложеном списку је 181 рад који су публиковани у часописима са SCI-листе: M21a – 32 рада, M21 – 66, M22 – 60 и M23 – 23 рада.

Проф. Schwarzabauer је саопштио око 100 радова на научним конференцијама. Од тога је 50 радова саопштио усмено. На научним конференцијама је председавао секцијама 30 пута. Одржао је 23 предавања по позиву.

Према бази података *Scopus*, радови проф. Schwarzabauer-а су на дан 27. 06 2024. цитирани 4897 пута, и 4147 пута без аутоцитатата (*h*-индекс 38).

Међународна научна репутација

Проф. Schwarzabauer је тренутно ангажован у уредништвима научних часописа:

- 1) *Environmental Chemistry Letters* – оснивач и Editor-in-Chief
- 2) *Journal of Soils and Sediments* – Subject-Editor.
- 3) *Discover Water*
- 4) *Science Reports*

Раније је био један од уредника часописа *Environmental Earth Sciences* (до 2010. године наслов часописа је био *Environmental Geology*).

Члан је следећих научних асоцијација:

- 1) Association of Chemistry and the Environment, ACE (оснивач: 2000. године, председник: 2003 – 2009 и 2016 године)
- 2) European Association of Organic Geochemists, EAOG
- 3) Gesellschaft Deutscher Chemiker (German Association of Chemists), GDCh - Fachgruppe Umweltchemie und Ökotoxikologie der GDCh (Division of Environmental Chemistry and Ecotoxicology)
- 4) Wasserchemische Gesellschaft (Association of Water Chemistry, Germany)
- 5) American Chemical Society (ACS) - Division of Environmental Chemistry ACS.

Проф. Schwarzabauer је учесник и руководилац бројних међународних пројеката.

Резултати у развоју одговарајуће образовно-научне области

Др Jan Schwarzbauer је од 1998. године руководио истраживачке групе за органску хемију животне средине ("Organic Environmental Chemistry"). Био је на функцији „декана за студије“ на Факултету за георесурсе и инжењеринг материјала (Dean of Studies - Faculty of Georesources and Materials Engineering, RWTH), где држи наставу из предмета из области органске геохемије и хемије животне средине. До сада је под његовим менторством докторирао 21 кандидата, а тренутно руководи израдом 5 докторских дисертација. Био је ментор 2 пута и на постдокторским студијама.

Предлог Комисије

Професор Jan Schwarzbauer је данас један од водећих истраживача и универзитетских професора у свету у области органске геохемије и хемије животне средине. На престижном Ахенском универзитету је од 1998. године руководио истраживачке групе за органску хемију животне средине ("Organic Environmental Chemistry"). Био је декан за студије је на Факултету за георесурсе и инжењеринг материјала (Dean of Studies - Faculty of Georesources and Materials Engineering, RWTH).

У издању реномиране издавачке куће Springer-Verlag проф. Schwarzbauer је објавио 13 књига (већина са карактеристикама научне монографије). Објавио је и 10 поглавља у књигама. Према Scopus-овој бази података на дан 28. 06. 2024. објавио је укупно 208 радова. У приложеном списку је 181 рад који су публиковани у часописима са SCI-листе: M21a – 32 рада, M21 – 66, M22 – 60 и M23 – 23 рада.

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Према бази података *Scopus*, радови проф. Schwarzbauer-а су на дан 27. 06 2024. цитирани 4897 пута, и 4147 пута без аутоцитатата (*h*-индекс 38).

Професор Jan Schwarzbauer је уредник или подручни уредник 4 реномирана научна часописа и члан је 5 међународних научних асоцијација. Оснивач је Европске асоцијације за хемију животне средине (Association of Chemistry and the Environment), и у два наврата је био њен председник. Такође, основао је официјелни часопис ове асоцијације у издању Springer-а, *Environmental Chemistry Letter (IF 15,0)*.

Сарадња са професором Schwarzbauer-ом траје скоро двадесет пет година. 2019. године први пут је био изабран за гостујућег професора на нашем Универзитету, односно Факултету. Послењих пет година држао је предавања нашим студентима на тему

органских полутаната у речним седиментима. У овом периоду у коауторству са проф. Јованчићевићем објавио је књигу у издању Springer-а. Поднет и је нови текст за пету по реду књигу код овог реномираног издавача. Започет је и довршен пројекат АГРИПЛАСТ Немачког министарства за науку. Поднета је и апликација за нови пројекат код Немачког министарства за науку. Публикована су још три заједничка научна рада и саопштен низ радова на научним конференцијама. Два наша студента би требало ове године да упишу докторске студије у Ахену под менторством Jan Schwarzbauer-а.

У периоду пре првог избора, поред бројних саопштења, заједнички су објављене три 3 књиге у издању Springer-а, као и 11 научних радова у међународним научним часописима са SCI-листе. У више наврата, под његовим менторством RWTH је био домаћин нашим наставницима и истраживачима на научним усавршавањима. Реализован је и заједнички TEMPUS пројекат, као и један пројекат билатералне сарадње.

На основу свега изложеног, Комисија са великим задовољством предлаже ангажовање др Jan Schwarzbauer-а, редовног професора Универзитета у Ахену (Rheinisch-Westfälische Technische Hochschule, RWTH Aachen University, Aachen, Germany), као гостујућег професора (Visiting Professor) на Универзитету у Београду и на Универзитету у Београду - Хемијском факултету.

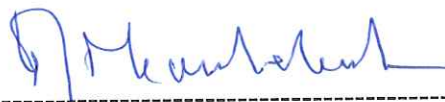
Комисија:



Др Ксенија Стојановић, редовни професор
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Др Горан Роглић, редовни професор
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Др Бранимир Јованчићевић, редовни професор
Универзитет у Београду - Хемијски факултет

Београд, 1. јула 2024. године

Прилог

Списак публикација професора Jan Schwarzbauer-a

Књиге/монографије

1. *Organic contaminants in riverine and groundwater systems – aspects of the anthropogenic contribution*, Schwarzbauer J., Springer-Verlag, Berlin/Heidelberg, 2006, 464 pp., ISBN 9-783540-311690.
2. *Environmental Chemistry*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2005, 780 pp. ISBN 3-540-22860-8.

Серија књига

Environmental Chemistry for a Sustainable World (ECSW)

3. *ECSW Vol 1: Nanotechnology and Health Risk*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2012, 410 pp., ISBN 978-94-007-2441-9.
4. *ECSW Vol. 2: Remediation of Air and Water Pollution*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2012, 541 pp., ISBN 978-94-007-2438-9.
5. *ECSW Vol. 3: Green Materials for Energy, Products and Depollution*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2013, 476 pp., ISBN 978-94-007-6835-2.
6. *ECSW Vol. 4: Pollutant Diseases, Remediation and Recycling*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2013, 545 pp., ISBN 978-3-319-02386-1.
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8. *ECSW Vol. 6: Hydrogen Production and Remediation of Carbon and Pollutants*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2015, 290 pp., ISBN 978-3-319-19374-8.
9. *ECSW Vol. 7: Pollutants in Buildings, Water and Living Organisms*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2015, 348 pp., ISBN 978-3-319-19275-8.

Fundamentals in Organic Geochemistry (FOG)

10. *FOG Vol 1: Fossil matter in the Geosphere*, Schwarzbauer J., Jovancicevic B. Springer-Verlag, Berlin/Heidelberg, 2015, 158 pp., ISBN 978-3-319-11552-8.
11. *FOG Vol 2: From Biomolecules to Chemofossils*, Schwarzbauer J., Jovancicevic B. Springer-Verlag, Berlin/Heidelberg, 2016, 160 pp., ISBN 978-3-319-27241-2.
12. *FOG Vol 3: Organic Pollutants in the Geosphere*, Schwarzbauer J., Jovancicevic B., Springer, Cham, 2018, 186 pp., ISBN 978-3-319-68937-1.
13. *FOG Vol 4: Introduction to Analytical Methods in Organic Geochemistry*, Schwarzbauer J., Jovancicevic B., (Eds), Springer, Cham, 2020, 145 pp, ISBN 978-3-030-38591-0.

Књиге/монографије - аутор поглавља

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15. Dsikowitzky L., Schwarzbauer J. (2013) Organic contaminants from industrial waste waters: Identification, toxicity and fate in the environment. In: *Environmental Chemistry for a Sustainable World Vol. 4: Pollutant Diseases, Remediation and Recycling*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer Verlag, Berlin/Heidelberg, 45-101.
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17. Heim S., Schwarzbauer J. (2012) Geochronology of anthropogenic contaminants in aquatic sediment archives: historical trends of marine, limnic and fluvial sediment contamination. In: *Environmental Chemistry for a Sustainable World Vol. 1: Nanotechnology and Health Risk*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer Verlag, Berlin/Heidelberg, 209-257.

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23. Dsikowitzky L., Damar A., Ferse S., Irianto HE., Jennerjahn T., Lukas MC., Nordhaus I., Pohlmann T., Schwarzbauer J., Sugama K., Sumiono B. (2019) Java Island, Indonesia. In: *World Seas - An Environmental Evaluation, Vol 2: The Indian Ocean to the Pacific*, Sheppard C (Ed.), Academic Press, Elsevier, London, UK, 459-490.

Радови у међународним часописима изузетне вредности (M21a)

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4. Crawford S., Brinkmann M., Ouellet J., Lehmkuhl F., Reicherter K., Schwarzbauer J., Bellanova P., Letmathe P., Blank L.M., Weber R., Brack W., van Dongen J.T., Menzel L., Hecker M., Schüttrumpf H., Hollert H. (2022) Remobilization of pollutants during extreme weather events poses severe risks to human and environmental health. *Journal of Hazardous Materials*, 421, 126691.
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