

НАСТАВНО-НАУЧНОМ ВЕЋУ
УНИВЕРЗИТЕТ У БЕОГРАДУ,
ХЕМИЈСКИ ФАКУЛТЕТ

Универзитет у Београду			
ХЕМИЈСКИ ФАКУЛТЕТ			
ПРИМЉЕНО: 6. 3. 2019.			
Орг. јед.	Број	Прилог	Бројности
	101/3		

Поштоване колегинице и колеге,

На седници Наставно-научног већа Хемијског факултета Универзитета у Београду одржаној 14. фебруара 2019. године, изабрани смо у Комисију за писање Реферата за 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 Хемијском факултету који је у саставу Универзитета у Београду.

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

Jan Schwarzbauer 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 Jan Schwarzbauer-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 Jan Schwarzbauer је од 1998. године руководио истраживачке групе за органску хемију животне средине (“Organic Environmental Chemistry“). Тренутно 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. Schwarzbauer је објавио 12 књига (већина са карактеристикама научне монографије). Објавио је и 7 поглавља у књигама. Према Scopus-овој бази података објавио је укупно 154 рада. У приложеном списку су 133 рада који су публиковани у часописима са SCI-листе: M21a – 23 рада, M21 – 46, M22 – 43 и M23 – 21 рад.

Проф. Schwarzbauer је саопштио 75 радова на научним конференцијама. Од тога је 40 радова саопштио усмено. На научним конференцијама је председавао секцијама 25 пута.

Према Scopus-овој бази података, на дан 04. 03 2019., радови су му цитирани 2459 пута (Хиршов индекс 26), а без аутоцитатата број цитата износи 1975 (Хиршов индекс 25).

Међународна научна репутација

Проф. Schwarzbauer је у уредништвима научних часописа:

- 1) *Environmental Chemistry Letters* – оснивач и Editor-in-Chief
- 2) *Environmental Earth Sciences* (до 2010. године наслов часописа је био *Environmental Geology*) - Editor
- 3) *Journal of Soils and Sediments* - Subject-Editor.

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. Schwarzbauer је учесник и руководиоца бројних међународних пројеката.

Резултати у развоју одговарајуће образовно-научне области

Др Jan Schwarzbauer је од 1998. године руководиоца истраживачке групе за органску хемију животне средине (“Organic Environmental Chemistry“). Тренутно 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 докторирало 14 кандидата, а тренутно руководи израдом 9 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 руководиоца истраживачке групе за органску хемију животне средине (“Organic Environmental Chemistry“). Декан за студије је на Факултету за георесурсе и инжењеринг материјала (Dean of Studies - Faculty of Georesources and Materials Engineering, RWTH). До сада је под његовим менторством докторирало 14 кандидата, а тренутно ради докторат 9 кандидата. Био је ментор два пута и на постдокторским студијама.

У издању Springer-а је објавио 12 књига (већина са карактеристикама научне монографије). Објавио је и 7 поглавља у књигама. Према Scopus-овој бази података публиковао је укупно 154 рада, од тога 133 у часописима са SCI-листе: M21a – 23 рада, M21 – 46, M22 – 43 и M23 – 21 рад. Саопштио је 75 радова на научним конференцијама (од тога 40 усмено). председавао је секцијама 25 пута. Према бази података Scopus, радови проф. Schwarzbauer-а су на дан 04. 03 2019. цитирани 2459 пута (Хиршов индекс 26) и 1975 пута без аутоцитата (Хиршов индекс 25).

Професор Jan Schwarzbauer је уредник или подручни уредник 3 реномирана научна часописа и члан је 5 међународних 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-a, *Environmental Chemistry Letters*.

Сарадња Универзитета у Београду са професором Schwarzbauer-ом траје скоро двадесет година. У овом периоду са колегама са Хемијског факултета, поред бројних саопштења, објавио је и три књиге у издању Springer-a, 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. Као гостујући професор на Универзитету у Београду значајно би допринео унапређењу органске геохемије и хемије животне средине, посебно у делу који се односи на органске загађујуће супстанце.

На основу свега изложеног, Комисија са великим задовољством предлаже ангажовање др Jan Schwarzbauer-a, 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 Хемијском факултету који је у саставу Универзитета у Београду.

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Београд, 06. март 2019. године

Прилог

Списак публикација професора Jan Schwarzbauer-a

Књиге

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.

Серије књига

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2. *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.
3. *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.
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5. *ECSW Vol. 5: CO₂ Sequestration, Biofuels and Depollution*, Lichtfouse E., Schwarzbauer J., Robert D. (Eds.), Springer-Verlag, Berlin/Heidelberg, 2014, 388 pp., ISBN 9783-319-11905-2.
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7. *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.

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3. *FOG Vol 3: Organic Pollutants in the Geosphere*, Schwarzbauer J., Jovancicevic B., Springer, Cham, 2018, 186 pp., ISBN 978-3-319-68937-1.

Поглавља у књигама

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Радови у врхунским међународним часописима (M21)

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