

**НАСТАВНО-НАУЧНОМ ВЕЋУ
ТЕХНОЛОШКО-МЕТАЛУРШКОГ ФАКУЛТЕТА
УНИВЕРЗИТЕТА У БЕОГРАДУ**

Одлуком Наставно-научног већа Технолошко-металуршког факултета Универзитета у Београду број 35/450 од 1.11.2018. године, именовани смо за чланове Комисије за припрему извештаја за предлог избора професора Patrick-a Gane-a са Алто универзитета из Хелсинкија (Aalto University) и Vice President of Research and Development, Omya AG, у звање гостујућег професора.

О кандидату, проф. Patrick-у Gane-у, подносимо следећи

ИЗВЕШТАЈ

А. БИОГРАФСКИ ПОДАЦИ

Професор др Patrick Arthur Charles GANE рођен је 28. децембра 1953. године и школован у Енглеској. St. Boniface College, Plymouth, England завршио је 1973. године. У периоду од 1973 – 1976. студирао је физику на Imperial College of Science and Technology (Royal College of Science) of the University of London. Докторске студије на University of Plymouth (Polytechnic SouthWest) уписао је 1976. године. Докторску тезу под насловом “ Structural & Physical Properties of Antibiotic Materials” одбранио је 1979. године. Од 1979 – 1981. године ради као истраживач пост-докторант на University of Exeter у области структуре и својстава кристалих и течно-кристалних материјала. Од 1981 – 1994. запослен је у ECC International Ltd., R&D Central Laboratories, UK, прво као научни сарадник (*Research Scientist*), затим као виши научни сарадник (*Senior Research Scientist*), а онда као Leader of Paper Coating Research и Leader of Paper Science and Technology. Један је од суоснивача компаније за тестирање опреме за штампу, SeGan Ltd. 1994. године, која је развила уређај за анализу површинске интеракције мастила/штампарске боје (Ink Surface Interaction Tester -ISIT), који се и данас користи у водећим лабораторијама широм света. Остаје директор компаније задужен за консултантске услуге у области индустрије папира и штампе до 2007. године. Од 1995 – 2001. године на позицији је потпредседника задуженог за истраживање и развој у OMYA, Plüss-Stauffer AG Technology Centre, Switzerland, да би 2001. године постао Vizedirektor, Head of Global R&D у OMYA International AG (раније OMYA Development AG) и на тој позицији је и данас. Паралелно са каријером у привреди и руковођењем стратешким, фундаменталним и примењеним истраживањима, развија и академску каријеру, тако да је од 2006. године професор на School of Chemical Engineering Aalto University (раније Helsinki University of Technology) за предмете из области технологије штампе. Од 2015. године, професор Gane је Associate Graduate Faculty member на University of Maine, USA, а од 2016. године Honorary Faculty member на University of Swansea, UK.

Професор Patrick Gane је сарадњу са Технолошко-металуршким факултетом Универзитета у Београду започео кроз различите програме истраживања, као и партнерско институционално учешће на пројекту “NOx Remediation” потписаном 2018. године између Технолошко-металуршког факултета и Omya International AG, Швајцарска, а у сарадњи са Aalto University, Финска.

У својој каријери био је активан у широком спектру истраживачких области укључујући структуру кристала, посебно структуру и физичка својства антибиотика (*Research Assistant*, University of Plymouth, 1976-1979); течне кристале (*Research Fellow* at the University of Exeter, 1979-1981); примену

минерала као адитива у производњи папира, као и бојама за штампу и наслојавање папира; превлаке и лепкове, и функционалне пуниоце у пластичној индустрији (Head of Paper Coating Research, English China Clays, UK, 1981-1994 и на садашњој позицији у Omya International AG, Switzerland, 1995 -). У последње време његова истраживања фокусирана су на интеракцију течности и топлоте са комплексним порозним медијима, укључујући нано-феномене у области штампања, екологије и композитних биоматеријала.

Своју прву Tappi награду (Division Technical Award) добио је 1997. године од Tappi Printing and Graphic Arts Division, а 2013. године изабран је за *Tappi Fellow*-а. Добитник је двоструке Шведске Кемпе награде (Swedish Kempe Prize) за своје корпоративно и универзитетско истраживање на развоју брзих инк-јет штампарских медија. Рецензент је у више научних часописа, члан је научних одбора неколико часописа и конференција, а од 2014. године је председавајући техничког програмског одбора The International Association of Research Organizations for the Information, Media and Graphic Arts Industries (IARIGAI).

Аутор је више од 200 научних публикација, 201 рада саопштеног на конференцијама и проналазач на 286 корпоративних патената.

Б. ДИСЕРТАЦИЈЕ

Одбрањена докторска дисертација

Patrick GANE, Structural and Physical Properties of Antibiotic Materials, PhD Thesis, University of Plymouth (Polytechnic SouthWest), United Kingdom, 1979.

В. НАСТАВНА ДЕЛАТНОСТ

На Aalto University (School of Chemical Engineering), професор Gane је ангажован у настави из предмета из области технологије штампе (курсеви из реологије, наслојених структура и интеракција између боје и површине). Такође, руководи Групом за технологију штампе (The Printing Technology group). Група се фокусира на развијање штампаних микрофлуидних уређаја користећи функционализоване пигменте за наслојавање, везива и хидрофобне боје, нано- и микро-штампане узорке за контролу анализата и интерактивне уређаје, као и реолошка својства сложених микро- и наночестичних суспензија. Гостујући предавач је на постдипломским студијама на Abo Akademi, Finland, где држи курс посвећен најновијим достигнућима из области превлака и нових аналитичких метода, као и на додипломским студијама на University of Manchester Institute of Science and Technology (UMIST), Department of Paper Science, UK.

Г. ПЕДАГОШКА АКТИВНОСТ

Професор Gane је захваљујући свом истовременом ангажовању у привреди (Head of Global R&D у OMYA International AG) и образовању (Aalto University) омогућио да многи индустријски оријентисани пројекти буду унапређени успостављањем и подстицањем веза са центрима академске извршености. Као ментор (external supervisor) студената додипломских и постдипломских студија (лиценцијати, завршни и мастер радови, докторске дисертације) подржавао је активан приступ истраживањима, спроводећи истраживачке програме у индустријски оријентисаном истраживању и развоју. Ова истраживања допринела су унапређењу фундаменталних знања из области миграције превлака, уклањању воде под дејством динамичког импулса притиска, оријентације честица, модификовања хемије површине и динамичке студије апсорпције, а од недавно и термичких својства превлака за папир. Институције обухваћене овим активностима су Åbo Akademi и Helsinki University of Technology, Финска; Fachhochschule, Минхен; Universities of Cambridge, Bristol, Plymouth, Warwick

и University of Manchester, Institute of Science and Technology (UMIST), England, Енглеска и University College of Wales, Aberystwyth.

Опонент/испитивач и рецензент докторских дисертација:

Åbo Akademi (5x)

Innventia/KTH (formerly STFI)

TKK (Helsinki University of Technology)

University of Eastern Finland (Joensuu)

Mid-Sweden University

TU Graz

University of Maine

Д. НАУЧНО-ИСТРАЖИВАЧКА ДЕЛАТНОСТ

Професор Patrick Gane је у оквиру научно-истраживачког рада објавио 8 поглавља у монографијама, 192 рада у часописима међународног значаја, од тога: 16 радова у врхунским међународним часописима категорије M21a, 80 радова у врхунским међународним часописима категорије M21, 59 радова у истакнутим међународним часописима категорије M22, 22 рада у међународним часописима категорије M23 и 15 радова у међународним часописима без категоризације, а проналазач је на 286 корпоративних патената. Радови професора Gane-a су до сада цитирани 1487 пута у научној литератури на основу базе SCOPUS (на дан 27.11.2018), без самоцитата свих коаутора и са вредношћу *h* индекса од 19. Професор Gane је саопштио 201 рад на међународним и националним научним скуповима. Руководио је и учествовао у 82 истраживача пројекта, већином на међународном нивоу.

СПИСАК РАДОВА

На основу члана 3. Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду, за гостујућег професора на Универзитету у Београду може бити изабран наставник који има:

1. већи број научних радова објављених у водећим међународним часописима,
2. већи број научних радова саопштених на међународним скуповима,
3. остварене резултате у развоју одговарајуће образовно-научне области
4. већу цитираност научних резултата и
5. међународну научну репутацију и то:
 - да је био гост-уредник у угледним међународним научним часописима;
 - да је председавао међународним научним конференцијама;
 - да има чланство у уређивачким одборима међународних научних часописа;
 - да је аутор међународне научне монографије.

Резултати које је у досадашњој научно-истраживачкој каријери остварио професор Patrick Gane, у смислу члана 3. Правилника, су:

1. Већи број научних радова објављених у водећим међународним часописима **M21a међународни часописи изузетних вредности**

1. **Gane P.A.C.**, Kettle J.P, Matthews G.P. and Ridgway C.J. (1996) Void Space Structure of Compressible Polymer Spheres and Consolidated Calcium Carbonate Paper-Coating Formulations. Ind. Eng. Chem. Res. 35, 1753-1764 (ISSN: 0888-5885; Engineering, Chemical (9/105) IF (1997) = 1,211)
2. Schölkopf J, **Gane P.A.C.**, Ridgway C.J. and Matthews G.P. (2000) Influence of Inertia on Liquid Absorption into Paper Coating Structures. Nordic Pulp and Paper Research Journal, Vol 15 No.5, pp422-430 (ISSN: 0283-2631; Materials Science, Paper & Wood (2/20) IF (2000) = 0,759)

3. Rousu S., **Gane P.A.C.**, Spielmann D.C. and Eklund D. (2000) Separation of Offset Ink Components during Absorption into Pigment Coating Structures. *Nordic Pulp and Paper Research Journal*, Vol 15 No.5/2000, pp527-553 (ISSN: 0283-2631; *Materials Science, Paper & Wood* (2/20) IF (2000) = 0,759)
4. Brandner B.D., Hansson P.M., Swerin A., Claesson P.M., Wåhländer M., Schoelkopf J. and **Gane P.A.C.** (2011) Solvent segregation and capillary evaporation at a superhydrophobic surface investigated by confocal Raman microscopy and force measurements. *Soft Matter*, 7, 1045–1052 (ISSN: 1744-683X; *Polymer Science* (7/79) IF (2011) = 4,390)
5. Ridgway C.J., and **Gane P.A.C.** (2012) Constructing NFC-pigment composite surface treatment for enhanced paper stiffness and surface properties. *Cellulose*, 19/2, 547-560 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/22) IF (2012) = 3,476)
6. Tåg C-M., Rajala P., Toiviainen M., Juuti M. and **Gane P.A.C.** (2013) Combining simulation and on-line measurements to determine moisture transport dynamics throughout the heatset offset printing process. *Applied Thermal Engineering*, Vol. 50, Issue 1, 1021–1028 (ISSN: 1359-4311; *Engineering, Mechanical* (10/128) IF (2013) = 2,624)
7. Ridgway C.J. and Gane P.A.C. (2013) Size-selective absorption and adsorption in anionic pigmented porous coating structures: case study cationic starch polymer versus nanofibrillated cellulose. *Cellulose*, Vol. 20, 933-951 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/21) IF (2013) = 3,033)
8. Dimic-Misic K., Puisto A., **Gane P.**, Nieminen K., Alava M., Paltakari J. and Maloney T., (2013) The role of MFC/NFC swelling in the rheological behavior and dewatering of high consistency furnishes. *Cellulose*, 20, 2847–2861 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/21) IF (2013) = 3,033)
9. Dimic-Misic K., Maloney T., Liu G., **Gane P.** (2017) Micro nanofibrillated cellulose (MNFC) gel dewatering induced at ultralow-shear in presence of added colloiddally-unstable particles. *Cellulose*, 24, 1463–1481 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/21) IF (2017) = 3,809)
10. Liu G., Maloney T., Dimic-Misic K., **Gane P.** (2017) Acid dissociation of surface bound water on cellulose nanofibrils in aqueous micro nanofibrillated cellulose (MNFC) gel revealed by adsorption of calcium carbonate nanoparticles under the application of ultralow shear. *Cellulose* 24, 3155–3178 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/21) IF (2017) = 3,809)
11. Dimic-Misic K., Maloney T., **Gane P.** (2018) Effect of fibril length and surface charge on ultralow shear-induced structuring in micro and nanofibrillated cellulose aqueous suspensions. *Cellulose*, 25, 117–136 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/21) IF (2017) = 3,809)
12. Phiri J., Johansson L-S., **Gane P.**, Maloney T.C. (2018) A comparative study of mechanical, thermal and electrical properties of graphene-, graphene oxide- and reduced graphene oxide-doped microfibrillated cellulose nanocomposites. *Composites Part B: Engineering*, 147, 104-113 (ISSN: 1359-8368; *Engineering, Multidisciplinary* (3/86) IF (2017) = 4,920)
13. Phiri J., Johansson L-S., **Gane P.** and Maloney T.C. (2018) Co-exfoliation and fabrication of graphene based microfibrillated cellulose composites – mechanical and thermal stability and functional conductive properties. *Nanoscale*, 10(20), 9569-9582 (ISSN: 2040-3364; *Materials Science, Multidisciplinary* (23/275) IF (2016) = 7,367)
14. Schenker M., Schoelkopf J., **Gane P.**, Mangin P. (2018) Influence of shear rheometer measurement system selection on rheological properties of microfibrillated cellulose (MFC) suspensions. *Cellulose*, 25, 961–976 (ISSN: 0969-0239; *Materials Science, Paper & Wood* (1/21) IF (2017) = 3,809)
15. Afsahi G., Dimic-Misic K., **Gane P.**, Budtova T., Maloney T., Vuorinen T. (2018) The investigation of rheological and strength properties of NFC hydrogels and aerogels from hardwood pulp by short catalytic

bleaching (Heat). Cellulose, 25, 1637–1655 (ISSN: 0969-0239; Materials Science, Paper & Wood (1/21) IF (2017) = 3,809)

16. Jutila E., Koivunen R., Kiiski I., Bollström R., Sikanen T., and **Gane P.** (2018) Microfluidic Lateral Flow Cytochrome P450 Assay on a Novel Printed Functionalized Calcium Carbonate-Based Platform for Rapid Screening of Human Xenobiotic Metabolism. Adv. Funct. Mater. 28, 1802793-1802803 (ISSN: 1616-301X; Chemistry, Multidisciplinary (11/171) IF (2017) = 13,325)

M21 врхунски међународни часописи

1. Boles M.O., Girven R.J. and **Gane P.A.C.** (1978) The structure of amoxycillin trihydrate (Amoxyl[®]) and a comparison with the structures of ampicillin. Acta Cryst. B34, 461-466 (ISSN: 2052-5206; Crystallography (6/26) IF (2015) = 2,892)
2. **Gane P.A.C.** and Boles M.O. (1979) The structure of the methyl ester of 5,5 - dimethyl - 2 -(2 - phenoxyethyl) - 5 - oxo - 1,3 - oxazolin - 4 - ylidene) - 1, thiazolidine - 4 - carboxylic acid. Acta Cryst. B35, 2664-2667 (ISSN: 2052-5206; Crystallography (6/26) IF (2015) = 2,892)
3. **Gane P.A.C.**, Boles M.O. and Bird A.E. (1980) The structure of the sodium salt of carfecillin. Acta Cryst. B38, 929-931 (ISSN: 2052-5206; Crystallography (6/26) IF (2015) = 2,892)
4. **Gane P.A.C.**, Kathirgamanathan P. and Rosseinsky D.R. (1981) Conductive mixed-halide adducts of tetra-thiafulvalene obtained by electrocrystallisation. JCS Chem Comm 378-379 (ISSN: 1359-7345; Chemistry (current - Chemistry, ...) (9/111) IF (1997) = 3,200)
5. **Gane P.A.C.**, Leadbetter A.J., Tucker P.A., Gray G.W. and Tajbakhsh A.R. (1982) The phase behaviour of two thiol esters (12S5 and 14S5). J. Chem Phys 77 (12) Am Inst. Phys. 6215-6217 (ISSN: 0021-9606; Physics, Atomic, Molecular & Chemical (2/14) IF (1982) = 2,947)
6. **Gane P.A.C.** and Leadbetter A.J. (1983) Modulated crystal B phases and B to G transitions. J. Phys. C: 16 2059-2067 (ISSN: 0022-3719; Physics, Condensed Matter (6/24) IF (1983) = 2,712)
7. Ridgway C.J. and **Gane P.A.C.** (2002) Controlling the absorption dynamic of water-based ink into porous pigmented coating structures to enhance print performance. Nordic Pulp and Paper Research Journal, Vol 17 no. 2, pp119-129 (ISSN: 0283-2631; Materials Science, Paper & Wood (4/18) IF (2002) = 0,739)
8. Ridgway C.J., Shoelkopf J. and **Gane P.A.C.**, (2003) A new method for measuring the liquid permeability of coated and uncoated papers and boards. Nordic Pulp and Paper Research Journal Vol 18, no. 4, pp 377-381 (ISSN: 0283-2631; Materials Science, Paper & Wood (3/18) IF (2003) = 0,683)
9. Ridgway C.J. and **Gane P.A.C.** (2003) Bulk density measurement and coating porosity calculation for coated paper samples. Nordic Pulp and Paper Research Journal, Vol. 18, No. 1, pp24-31 (ISSN: 0283-2631; Materials Science, Paper & Wood (3/18) IF (2003) = 0,683)
10. Rousu S., **Gane P.A.C.** and Eklund D.E. (2005) Print quality and the distribution of offset ink constituents in paper coatings. Tappi Journal 4, No. 7, pp9-15 (ISSN: 0734-1415; Materials Science, Paper & Wood (3/18) IF (2005) = 0, 946) **listed amongst outstanding papers for 2005 in Tappi Journal (Awarded best coating paper in Tappi J 2006).**
11. Laudone G.M., Matthews G.P. and **Gane P.A.C.** (2004) Observation of Shrinkage during Evaporative Drying of Water-Based Paper Coatings. Industrial and Engineering Chemistry Research (ACS), Vol. 43, No. 3, pp 712 - 719 (ISSN: 0888-5885; Engineering, Chemical (17/116) IF (2004) = 1,424)
12. **Gane P.A.C.**, Ridgway C.J., Lehtinen E., Valiullin R., Furó I., Schoelkopf J., Paulapuro H., and Daicic J. (2004) Comparison of NMR Cryoporometry, Mercury Intrusion Porosimetry, and DSC Thermoporosimetry in Characterizing Pore Size Distributions of Compressed Finely Ground Calcium

- Carbonate Structures. *Ind. Eng. Chem. Res.*, 43 (24), 7920 -7927 (ISSN: 0888-5885; Engineering, Chemical (17/116) IF (2004) = 1,424)
13. Guéra N., Schoelkopf J., **Gane P.A.C.** and Rauatmaa I. (2005) Comparing Colloidal Pitch Adsorption on Different Talcs. *Nordic Pulp and Paper Journal* Vol. 20, no. 2, pp156-163 (ISSN: 0283-2631; Materials Science, Paper & Wood (2/19) IF (2004) = 1,024)
 14. Laudone G.M., Matthews G.P., **Gane P.A.C.**, Ridgway C. J. and Schoelkopf J. (2005) Estimation of the effective particle sizes within a paper coating layer using a void network model. *Chemical Engineering Science*, Vol 60/23 pp 6795-6802 (ISSN: 0009-2509; Engineering, Chemical (24/116) IF (2008) = 1,884)
 15. Laudone G.M., Matthews G.P. and **Gane P.A.C.** (2006) Effect of latex volumetric concentration on viscosity, void structure and effective particle size distribution in a pigmented coating layer. *Industrial and Engineering Chemistry Research* 45, 1918-1923 (ISSN: 0888-5885; Engineering, Chemical (23/110) IF (2006) = 1,518)
 16. **Gane P.A.C.**, Ridgway C.J., Schoelkopf J., and Bousfield D.W. (2007) Heat Transfer through Calcium Carbonate-Based Coating Structures: Observation and Model for a Thermal Fusing Process, *Journal of Pulp and Paper Science*, Vol. 33, No. 2, 60-70 (ISSN: 0826 6220; Materials Science, Paper & Wood (2/18) IF (2007) = 0,833)
 17. Lattaud K., Vilminot S., Hirlimann C., Parnat H., Schoelkopf J. and **Gane P.A.C.** (2006) Index of refraction enhancement of calcite particles coated with zinc carbonate. *Solid State Sciences* 8, 1222-1228 (ISSN: 1293-2558; Physics, Condensed Matter (17/58) IF (2006) = 1,752)
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189. Weeks L., **Gane P.**, Lyons T. and Bousfield D. (2018) Operational limits of blade coating associated with high aspect ratio pigments. Paper presented at the Tappi 15th Advanced Coating Symposium, April 14-15, 2018, Charlotte, NC, USA, Session ACS6, pp58-75 [**Winner of Best Student Paper and Best Paper Awards**] Also published in Tappi Journal publication details awaited
190. Phiri J., Johansson L-S., **Gane P.**, Maloney T. (2018) Enhanced Functional Properties of Co-Exfoliated Graphene Doped Microfibrillated Cellulose Composites. Paper presented at the 255th ACS National Meeting & Exposition March 18-22, 2018, New Orleans, Louisiana, USA publication details awaited
191. Matthews G.P., Laudone G., Levy C., Jones K., Ridgway C., Hallin I., Gazze S.A., Francis L., Schoelkopf J., **Gane P.** (2018) Advances in the modelling of void clusters and transient wettability. Peer reviewed Presentation ID: 153 given at the InterPore 2018, 10th Annual Meeting, May 14th-17th, New Orleans, USA
192. Markl D., Ridgway C., Bawuah P., **Gane P.**, Ketolainen J., Peiponen K. E. & Zeitler J. A. (2017) Analysis of anisotropic pore structures using terahertz spectroscopy and imaging. 42nd International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2017. IEEE COMPUTER SOCIETY PRESS, 8066929
193. Eriksson M., Claesson P., Tuominen M., Järn M., Wallqvist V., **Gane P.**, Schoelkopf J., Vollmer D., Kappl M., Teisala H. and Swerin A. (2018) Direct observations of cavitation and capillaries during force measurement. Superhydrophobicity and Wetting Symposium (SWS), 16th-17th May 2018 Aalto University, Espoo, Finland
194. Wojas N.A., Claesson P.M., Swerin A., Wallqvist V., Järn M., Schoelkopf J., Adam M., **Gane P.** (2018) Adsorption of H₂O and gaseous species on CaCO₃ surfaces at different relative humidity and temperature. Presentation given at COLL 165, New Orleans, March 2018
195. **Gane P.** (2018) Substrate Surface Design: capturing the power of pore-liquid functionality. **Invited presentation** for the Tappi Advanced Coating, 14-15 April 2018, Charlotte, North Carolina, USA.
195. Bawuah P., Karttunen A.-P., Markl D., Ridgway C. Korhonen O.1, **Gane P.**, Zeitler J.A., Ketolainen J., Peiponen K.-E. (2018) Optics-Based Heckel Analysis to Powder Compaction. Poster presented at the EUPAT9 conference Manchester, UK, May 15-16, 2018 Publication details awaited
196. Ollikainen E., Jutila E., Koivunen R., Bollström R., **Gane P.**, Sikanen T. (2018) Multiplexing Paper Microfluidic Drug-Drug Interaction Assays. MNE Conference, 24-27 September 2018, Copenhagen, Publication details awaited

197. Schenker M., Schoelkopf J., **Gane P.**, Mangin P. (2018) Investigating the influence of fibril size on microfibrillated cellulose (MFC) suspension morphology under flow: a rheological approach. Paper presented at the Tappi 2018 International Conference on Nanotechnology for Renewable Materials, June 11 - 15, 2018 - Madison, Wisconsin, USA, Session 26: Characterization Methods, pp145(1), TAPPI PRESS, Atlanta, GA.
198. Dimic-Misic K., Barceló E., Spasojević Brkić V., **Gane P.** (2018) Challenges of implementing a European bioeconomy based on forest resources: need for circularity. SIE 2018, 7th International Symposium on Industrial Engineering, Belgrade, Publication details awaited
199. Barceló E., Dimic-Misic K., **Gane P.** (2018) Impact of forest harvesting of wood biomass on sustainability and regulatory in European bioeconomy development: learnings from the Finnish model. SIE 2018, 7th International Symposium on Industrial Engineering, Belgrade, Publication details awaited
200. Dimić-Misić K., Kostić M., Kramar A., Kuraica M., Obradović B., Jovanović S., Lazović S., Maloney T., **Gane P.** (2018) Nitrogen plasma surface treatment on micro nanofibrillated cellulose films. SIE 2018, 7th International Symposium on Industrial Engineering, Belgrade, Publication details awaited
201. **Gane P.** (2018) Contact angle on complex surfaces: a pragmatic approach to determining surface energy. SIE 2018, 7th International Symposium on Industrial Engineering, Belgrade, Publication details awaited

3. Остварени резултати у развоју одговарајуће образовно-научне области

У својој каријери професор Gane је био активан у широком спектру истраживачких области укључујући: структуру кристала, посебно структуру и физичка својства антибиотика (Research Assistant, University of Plymouth, 1976-1979); течне кристале (Research Fellow at the University of Exeter, 1979-1981); примену минерала као адитива у производњи папира, као и бојама за штампу и наслојавање папира; превлаке и лепкове, и функционалне пуниоце у индустрији пластичних материјала (Head of Paper Coating Research, English China Clays, UK, 1981-1994 и на садашњој позицији у Omya International AG, Switzerland, 1995 -). У последње време његова истраживања су фокусирана на интеракцију течности и топлоте са комплексним порозним медијима, укључујући нано-феномене у области штампања, екологије и композитних материјала.

У току свог рада у ECC International у одељењу за R&D/Technical Service, напредовао је од *Research Scientist* у 1981 до *Leader of Paper Science and Technology* 1992. године. Овај период његовог рада карактерише интеграција фундаменталних истраживања у области наслојавања папира, развоја различитих превлака и метода за њихово наношење са концептом потпуне услуге за кориснике. Преласком 1995. године у OMYA Plüss-Staufner AG, Швајцарска, на позицију Vice President of Research and Development, као природни наставак својих ранијих истраживања у области папира, започиње истраживања у области пигмената за папир, од производње и модификовања минералних система до развоја нових области и техника њихове примене. У свом раду показује велику иновативност тако да су многа техничка решења и развијене формулације заштићена патентним регистрованим широм света (професор Gane је проналазач на 286 корпоративних патената). Фундаментална истраживања механизма наслојавања папира применом ножа и ваљака резултовала су патентом (Gane EP 0198622 B1) који је и комерцијализован (Valmet (Metso) Opticoat и the Mitsubishi-Beloit BA1500), а предавање професора Gane-а 1992. године на ову тему одржано на Tappi Coating Conference, Orlando USA, награђено је као најбоље предавање. Изузетан успех самих истраживања, праћен пословним успехом компаније, као и његова нова позиција Head of Global R&D у новооснованом огранку компаније, Omya Development AG, омогућили су му годишњи буџет за истраживања од 4,5 милиона евра.

Каснија истраживања порозних структура, квашљивости површине и притабилности била су усмерена на развој пигмената и формулација за наслојавање папира и мастила за штампу, како за конвенционалну и без воденог медијума офсет штампу, тако и за гравуру и флексографију уз примену како растварача тако и воде. Добијени резултати омогућили су развој пигмената за ink jet, non-impact и coldset offset штампу, а за презентовање резултата на Tappi Coating Conference у Мајамију 2007 добио је награду.

Истраживања у области нанотехнологија и микробиологије у сарадњи са University of Warwick, England, довела су до развоја и примене јединствене инструментације за бактериолошку анализу белих пигмената и минералног муља у реалном времену, која користе индустрије папира, фармацеутских производа, пречишћавања воде, боја и прехранбених производа и даље. Под његовим руководством компанија Омуа је често пласирана међу топ 20 најиновативнијих компанија у Швајцарској (Швајцарска се сматра водећом земљом у свету по питању R&D и иновација) – нпр. 2016 #18 и 2017 #19.

Награде: Своју прву Tappi награду (Division Technical Award), праћену Engelhard Medallion-ом, добио је 1997. године од Tappi Coating and Graphic Arts Division за изузетна достигнућа која су унапредила индустрију целулозе и папира, а 2013. године изабран је за Tappi Fellow-а. Добитник је двоструке шведске Кемпе награде (Swedish Kempe Prize) за своје корпоративно (2010. године) и индустријско истраживање (2011. године) у области интеракција течности и порозних структура, која се сматрају фундаменталним за развој брзих инк-џет штампарских медија. Награду CPhI 2015 – за најиновативнију технологију у области помоћних средстава и активних фармацеутских састојака (excipients and active pharmaceutical ingredients (APIs)). Од 2016. године Honorary Faculty member на University of Swansea, UK, а од 2017. године и почасни доктор наука на University of Plymouth.

Професор Gane је током досадашњег рада радио као рецензент националних/интернационалних пројеката за следеће организације/фондације:

- Appointed Reviewer for Phase I Project Funding Call, Slovenian Research Agency, 2013.
- Project reviewer for STW, Project Funding Authority for The Netherlands, 2015
- Matera Tekes review
- Knowledge Foundation project review
- Centre of Excellence application Shaanxi Province, Xi'an University of Technology, China

Професор Gane је током досадашњег рада радио као рецензент за следеће међународне научне часописе:

- Advances in Materials Science and Engineering
- Applied Materials and Interfaces
- Applied Rheology
- Applied Surface Science
- Biofabrication
- Biomaterials
- Biomed Research International
- Bioresources
- Cellulose
- Colloids and Surfaces A
- Computers and Chemical Engineering
- DWT – water treatment
- Dyes and Pigments
- European Journal of Pharmaceutical Sciences
- Industrial Crops and Products
- Institute of Physics electronic journals

- International Journal for Light and Electron Optics
- International Journal of Heat and Mass Transfer
- International Journal of Thermal Sciences
- Journal of Chemical Engineering Science
- Journal of Colloid and Interface Science
- Journal of Computational Materials Sciences
- Journal of Dispersion Science and Technology
- Journal of Industrial and Chemical Engineering Research
- Journal of Materials and Design
- Journal of Materials Science
- Journal of Membrane Science
- Journal of Micromechanics and Microengineering
- Journal of Nanomaterials
- Journal of Physics and Chemistry of Solids
- Journal of Physics Condensed Matter
- Journal of Physics D: Applied Physics
- Journal of Print Media and Technology Research
- Journal of Pulp and Paper Science
- Journal of Surface Engineered Materials and Advanced Technology
- Journal of the European Optical Society
- Langmuir
- Materials Science and Engineering B
- Measurement Science Technology
- Nanoscale Research Letters
- Nordic Pulp and Paper Research Journal
- Optics Letters
- Organic Electronics
- Pharmaceutical Research
- Phase Transitions
- Polymer Bulletin
- Powder Technology
- Progress in Organic Coatings
- Results in Physics
- Surfaces and Coatings
- Tappi Journal
- Transport in Porous Media

4. Већа цитираност научних резултата

На основу базе података SCOPUS, на дан 27.11.2018, радови професора Gane-а су цитирани 1487 пута у научној литератури, без самоцитата свих коаутора. Вредност h индекса је 19.

5. Међународна научну репутацију и то:

- **да је председавао међународним научним конференцијама;**
 - Scientific Programme Committee member of the annual Conference of the International Association of Research Organizations for the Information, Media and Graphic Arts Industries (iarigai), од 2014.
 - Chairman of the technical programme Committee of the annual Conference of the International Association of research Organizations for the Information, Media and Graphic Arts Industries (iarigai), од 2015.
 - Scientific Programme Committee of the triennial Paper and Coating Chemistry Symposium
 - Strategic and Technical Programme Committees member of the PulPaper Conference, од 2014.

Такође, професор Гане је био уредник:

1. Advances in Printing and Media Technology XLII(II): Proceedings of the 42nd International Research Conference of iarigai, 06-09 September, Helsinki 2015, Media and Graphic Arts Industries Darmstadt, Germany, 2015, Ed. P. Gane, (ISBN 978-3-9870704-1-9, ISSN 2409-4021)
2. Advances in Printing and Media Technology XLIII(III): Proceedings of the 43rd International Research Conference of iarigai Toronto, Canada, August 2016, Published by the International Association of Research Organizations for the Information, Media and Graphic Arts Industries Darmstadt, Germany, 2016, Darmstadt MMXVI Edited by Patrick Gane, Associate editor: Cathy Ridgway (ISBN 978-3-9870704-6-4 ISSN 2409-4021)
3. Advances in Printing and Media Technology: Proceedings of the 44th International Research Conference of iarigai Fribourg, Switzerland, September 2017, Published by the International Association of Research Organizations for the Information, Media and Graphic Arts Industries Darmstadt, Germany, 2017, Edited by Patrick Gane, Associate editor: Cathy Ridgway

Професор Gane је члан управног одбора (Board member) the International Association of Research Organizations for the Information, Media and Graphic Arts Industries (iarigai).

- да има чланство у уређивачким одборима међународних научних часописа;

- Scientific Advisory Board of the Nordic Pulp and Paper Research Journal

- Scientific Advisory Board of the Journal of Print and Media Technology Research (iarigai)

- да је аутор међународне научне монографије;

1. Монографија, монографске студије, тематски зборници међународног значаја

1.3. Монографска студија/поглавље у књизи M11, или раду тематском зборнику водећег међународног значаја (M13)

1. Schwarzenhuber P. and **Gane P.A.C.** (2002) Application of Microbicides for the Storage Protection of Mineral Dispersions. pp. 251-262, in: Ed. Paulus W., Directory of Microbiocides for the Protection of Materials and Processes: Dordrecht: Kluwer Academic Publishers (ISBN 1-4020-2817-2)
2. Laudone G.M., Matthews G.P., **Gane P.A.C.** (2003) Indirect measurement of shrinkage forces acting during the drying of a paper coating layer. pp. 1-22, In: Ed. K.L. Mittal, Contact Angle, Wettability and Adhesion, Vol 3, CRC Press (ISBN 9789067643917)
3. **Gane P.A.C.** and Ridgway C.J.R. (2009), Coating layer measurement and analysis techniques. pp.398-430, In book: Ed. J. Paltakari, Pigment coating and surface sizing of paper, Edition: 2 April 2009, Chapter: 12, Publisher: Paper Engineers' Association/Paperi ja Puu Oy
4. **Gane P.A.C.**, Paltakari J. (2009) Development trends and future outlook. p. 597-604, in: Book 11, Pigment coating and surface sizing. "Engineers' Association/Paperi", P. & Oy, P. (eds.). Jyväskylä
5. **Gane P. A. C.** (2009) Dynamics of printed droplets nanosurface technology development. in: Clarke, A. (ed.). Dynamics of Printed Droplets II, Institute of Physics, London
6. **Gane P. A. C.** (2009) Ground Calcium Carbonate. pp. 24-117, in: Paltakari, J. (ed.). Pigment Coating. 2. ed. ed. Finland: Fapet Oy, p. Vol. 11, Chapter 5,
7. Subramanian R., Hiltunen E. and **Gane P.A.C.** (2011), Potential Use of Micro- and Nanofibrillated Cellulose Composites Exemplified by Paper. In book: Eds. Kalia S.; Kaith B. S.; Kaur I., "Cellulose Fibers: Bio- and Nano-Polymer Composites: Green Chemistry and Technology", Chapter 5 Part II "Cellulosic Fiber Reinforced Polymer Composites and Nanocomposites", Springer Verlag, 1st Edition, 750 p., ISBN: 978-3-642-17369-1.

8. Liu G., Zhang X., Zhang M., **Gane P.** (2017) Revealing the components at work in classical liquid imbibition models Inertial, bosanquet and viscous lucas-washburn applied to printing. in Lecture Notes in Electrical Engineering (Springer-Verlag) ISBN: 978-981-10-3529-6; ISSN: 1876-1100

Патенти (Напомена: патенти су наведени према најранијем датуму регистравања; многи патенти су заштићени/регистровани у више земљама са истим или каснијим датумом.)

1. Patent Application - improved opacifying calcium carbonate (1996)
2. Patent granted - Paper coating pigment utilisation in paper making and handling process - by reducing coefficient of friction of web of coated paper prepared and surface modified with polymethacrylic acid dispersing agent in printing. Gane P.A.C., McGenity P.M. and Preston J.S. (1995) WO9509948
3. Patent granted - CF coating composition for carbonless paper copying systems - containing particulate inorganic extender treated to allow offset printing as well as writing. Gane P.A.C. (1993) GB93011088
4. Patent granted - Paper coating pigment and composition useful for short dwell blade coater for rotogravure printing - comprises high aspect ratio for each pigment fraction to prevent defects caused by build-up of composition on downstream edge of blade - also for offset printing. Gane P.A.C. and McGenity P.M. (1993) GB9309150
5. Patent granted - Rotogravure paper composition - comprising adhesive and treated paper coating pigment in aqueous suspension giving good print quality and good gloss. Gane P.A.C. and Golley C.R.L. (1992) GB92023212
6. Patent granted - Pigment coating compositions - for improved coating of paper or cardboard in gravure printing processes. Gane P.A.C. and McGenity P.M. (1993) WO9309289
7. Patent granted - Coating for paper for gravure printing - comprises pigment particles in non-swelling polymer latex. Gane P.A.C. (1992) WO9209746
8. Patent granted - Improving rheological properties of kaolin clay - by treating an aqueous suspension with a cation exchange zeolite. Gane P.A.C. and O'Neill G.P. (1986) GB86028807
9. Patent granted - Stable aqueous suspension of calcium sulphate (gypsum) - contains hydrophilic polymer, zeolite and minor amounts of dispersing agent. Gane P.A.C. and O'Neill G.P. (1987) GB873560
10. Patent granted - Coating unit for paper, paperboard or sheet material – includes flexible and trailing blades at outlet of coating feed. [The twin blade coating head]. Gane P.A.C. (1986) EP86302307
11. Patent granted first in France - Applicant Omya AG - formation of a costructure between two minerals, e.g. calcium carbonate and talc.
12. Patent granted first in France - Applicant Omya AG - properties of costructure between two minerals.
13. Patent granted first in France - Applicant Omya AG - modified calcium carbonate with nano surface features on an otherwise micro particles brought about by the action of weak acid and the action of H_3O^+ . Applications range across a wide range of highly absorbing porous structures, including InkJet printing surfaces and the improvement of matt paper printability to the use as filler and additive in supercalendered and newsprint woodcontaining grades, EP 1 149 136, (Priority 24.12.98).
14. Patent granted in US - as above - US Patent Number 6,666,953.
15. Patent granted first in France - Applicant Coatex - a low charge partially steric dispersant.
16. Patent granted first in France - Applicant Omya AG - a further low charge partially steric dispersant used as a grinding agent WO 2004/041882 (Priority 08.11.2002).
11. Patent granted first in France - Applicant Omya AG - molecule as in 15. But used as gloss enhancer WO 2004/041883 (Priority 08.11.2002).
12. Patent granted first in France - Applicant Omya AG - modified calcium carbonate as described in 13. with additional species on the surface consisting of silicate based salts. "Nouveau pigment minéral contenant du carbonate de calcium, suspension aqueuse le contenant et ses usages." Used to enhance in

- particular the print density of InkJet papers. March 18, 2003, extended to other countries March 18, 2004, WO 2004/083316.
13. Patent granted first in France – Applicant Omya AG – procedure for the production of self-binding pigment particles, dry or in suspension or dispersion in water, containing inorganic and binder materials. “Procédé de fabrication de particules pigmentaires autoliantes, seches ou en suspension ou dispersion aqueuses, contenant des matieres inorganiques et des liants”. July 13, 2004, 04 07806 (French application number).
 14. Patent granted first in France – Applicant Coatex/Omya – “Procédé de fabrication d’une resine thermoplastique avec une resistance a l’impact ameliorée mettant en œuvre un polymere peigne avec au moins une fonction greffée oxide de polyalkylene et resins obtenues”. November 4, 2005.
 15. Patent granted first in France – Application Coatex/Omya – “Procédé de fabrication de particules à base de carbonate de calcium naturel et de sels d’acide éthylène acrylique, suspensions et pigments secs obtenus, leurs utilisations.” January 19, 2006.
 16. Application Omya Development AG: Composite Compositions of Co-structured or Co-adsorbed Organic or Mineral Pigments or Fillers and their Uses, EP 1 084 203, (Priority 09.04.98, 30.11.98).
 17. Application Omya Development AG: Process to disperse and/or grind and/or concentrate calcium carbonate in aqueous media using an aqueous solution containing zirconium compounds (Priority 25.07.2005).
 18. Application Omya Development AG: Manufacturing process of a thermoplastic resin having an improved shock resistance by using a comb-polymer with at least a grafted polyalkylene oxide group and resins obtained, 05 11274 (French application number) (Priority 04.11.2005).
 19. Application Omya Development AG: Manufacturing process of particles containing natural calcium carbonate and salts of copolymer ethylene-acrylic acid. Suspensions and dry pigments obtained and their uses, 06/00491 (French application number), (Priority 19.01.2006).
 20. Coatex SAS: FR/15.06.00/FRA 0007639 Brevet No. 06023550.4-1213: Use of a defined anionic copolymer as grinding aid in a mineral suspension in water, its production and use (Priority 01.12.06).
 21. Coatex SAS: FR/15.06.00/FRA 0007639 Brevet No. 06023575.1-2117: Use of a defined anionic copolymer as a dispersing agent for mineral in water, its production and use (Priority 01.12.06).
 22. Omya Development AG: FR/13.07.04/FRA 0407806: Procedure for the manufacture of self-binding particles, dry or in suspension or aqueous dispersion containing the inorganic material and the binder. Brevet No. 05781733.0-01218-IB2005002762.
 23. Omya Development AG: European Patent Office No. 07005853.2-2124: Process for the control of pitch (21.03.07). European Patent Office No. 08718056.8-2124 PCT/EP2008053335, priority EP/21.03.07/ EPA 07005853: Process for the control of pitch: date of filing 19.03.08: (28.10.09)
 24. Omya Development AG: European Patent Office No. 07009687.0-1220: Method for controlling the shape of talc particles (Priority 15.05.07).
 25. Omya Development AG: European Patent Office No. 07109909.7-1218: Treatment of talc in solvent (08.06.07).
 26. Omya Development AG: European Patent Office No. 07007599.9-1218: Process for the preparation of a treated mineral filler product, the obtained mineral filler product and its uses (13.04.07)
 27. Omya Development AG: European Patent Office No. 07290603.5-2111: Procédé de broyage en milieu aqueux de matières minérales et de liants mettant en œuvre une émulsion inverse d’un polymère de l’acrylamide avec un monomère acrylique (11.05.07).
 28. Omya Development AG: European Patent Office No. 07110401.2-2114: Filtering and/or flocculating aids for the purification of liquid foods (15.06.07).
 29. Omya Development AG: European Patent Office No. 07110381.6-1213: Surface-reacted calcium carbonate in combination with hydrophobic adsorbent for water treatment (15.06.07).
 30. Omya Development AG: European Patent Office No. 07112307.5-2111: Surface-reacted precipitated calcium carbonate, process to make same and uses thereof (12.12.07).
 31. Omya Development AG: European Patent Office No. 08154448.8-2103: Composition having a biocide activity for aqueous preparations (11.04.08).

32. Coatex SAS: European Patent Office No. 06809148.7-1220: Procedure for the production of a thermoplastic resin with improved impact resistance (17.06.08).
33. Omya Development AG: European Patent Office No. 08103796.2-2302: Alkaline earth carbonate-containing mineral for surface cleaning (30.04.08).
34. Omya Development AG: European Patent Office No. 07700475.2-1218 PCT/IB2007000076: Procédé de fabrication de particules a base de carbonate de calcium naturel et de sels d'acide acrylique-ethylene, suspensions et pigments secs obtenus, leurs utilisations: Priorité: FR/19.01.06/FRA 0600491 (09.01.07).
35. Omya Development AG: European Patent Office No. 07021416.8-2124: Use of a surface-reacted calcium carbonate in tissue paper, process to prepare at tissue paper product of improved softness, and resulting improved softness tissue paper products: Date of filing 02.11.07 (12.09.08).
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ЗАКЉУЧЦИ И ПРЕПОРУКЕ КОМИСИЈЕ

На основу изложеног о професору Patrick-у Gane-у, Комисија сматра да је професор Gane остварио значајне резултате у наставном, стручном и научно-истраживачком раду. Наставни, научно-истраживачки и стручни рад професора Gane-а је верификован кроз: објављене радове, високу цитираност публикација, саопштења на међународним конференцијама, велики број регистрованих патената, сарадњу са реномираним светским институцијама, реализоване међународне и националне пројекте, организацију међународних скупова и свакако кроз његов рад са студентима. Професор Gane је у протеклом периоду остварио и значајну сарадњу са Технолошко-металуршким факултетом Универзитета у Београду кроз различите програме истраживања, као и партнерско институционално учешће на пројекту “NOx Remediation” између Технолошко-металуршког факултета и Omya International AG, Швајцарска, а у сарадњи са Aalto University, Финска.

Имајући у виду целокупни досадашњи рад и остварене резултате професора Patrick-а Gane-а, Комисија сматра да професор Gane у потпуности испуњава услове Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду, и сходно томе предлаже Наставно-научном већу Технолошко-металуршког факултета, већу групације техничких наука и Сенату Универзитета у Београду, да га изабере за гостујућег професора који би био ангажован на Технолошко-металуршком факултету у настави на предметима докторских академских студија из области инжењерства материјала и учешћу у научно-истраживачким пројектима.

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У Београду, 03.12.2018.