

15th Feb 2019

Re: Prof Nicholas Dunne's nomination to the European Society of Biomaterials Council

To Whom It May Concern:

I am writing to confirm my application to be a **member of the European Society of Biomaterials Council**.

As evidenced from my CV, I have played an active role in support of both the ESB (2010-2014) and UKSB Young Scientist Forums (YSF) (2011-2015), and the ESB Educational Committee (2011-2014). During this time, I have shown tremendous commitment, vision and constructive engagement with both the societies and the young scientists I represented. In this role I demonstrated a vision, passion, and negotiation skills that enabled me to become a great promoter of the YSF needs and to contribute the ESB and UKSB to set the basis for a new generation of scientists. These attributes were foremost when I conceived and lead the inaugural YSF worldwide initiative at WBC2012, which focussed on the 'Mentorship and Opportunities of Young Scientist in Biomedical Science' and involved key opinion leaders from the global biomaterials community. The great success of this initiative resulted in the inclusion of a professional development/mentoring YSF event at WBC2016, and similar will happen at WBC2020 –in me capacity as a member of the WBC2020 Executive Organising Committee.

At the same time, my CV shows the impressive number of postgraduate students and postdoctoral researchers that I have been supervised and mentored during the early stages of their research lives, and have since developed into highly successful independent academic researchers in academia or industry-based scientists/engineers.

Based on my contribution to the leadership and management of ESB/UKSB YSF and my experience as an academic researcher and mentor, I have decided to run for election to the ESB Council as I would like to bring my ideas and experiences to help make the ESB membership grow from strength-to-strength and be a stay a happy and growing scientific society. Additionally, as an ESB Council member, I would like to continue to foster young minds and talents and be a positive role model for young scientists inspiring them to support their peers in the future.

Sincerely yours,



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Full Professor of Biomaterials Engineering,
Chair of School of Mechanical & Manufacturing Engineering

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School of Mechanical Engineering
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Field of Professional Activity: For the last 16 years, Professor Dunne's research has focused on the stratified design/characterisation approaches of drug-biomaterial combinations for musculoskeletal repair/regeneration, wound-healing and cancer regimens, which have been developed via a strong, interdisciplinary programme complemented with over-arching national/international university and industrial collaborations.



Education:

Athlone Regional Technical College	Polymer Science	BSc (Hons) 2:1 1993
Queen's University Belfast	Biomaterials	PhD 1996
Queen's University Belfast	Education	PGCHET 2004

Recent Previous Professional Appointments:

2015-2016, Professor of Biomaterials Engineering, School of Mechanical and Aerospace Engineering, QUB, UK
2010-2015, Associate Professor in Biomaterials Engineering, School of Mechanical and Aerospace Engineering, QUB, UK
2008-2010, Senior Lecturer, School of Mechanical and Aerospace Engineering, QUB, UK

Recent Awards and Honours:

- Spin-out company (Phion Therapeutics; www.phiontx.co.uk). Winner of Invent NI (2017) & All Ireland Intertrade Seedcorn Winner (2017).
- Journal of Materials Science: Materials in Medicine Award Best Paper Award (2017)
- Royal Academy of Engineering/Leverhulme Trust Senior Research Fellowship Award (2010)
- British Orthopaedic Research Society/Orthopaedic Research Society Research Fellowship (2009)

Professional Membership:

- Fellow, Institute of Materials, Mineral and Mining, 2009
- Member, Higher Education Academy, 2004
- Chartered Engineer, Institute of Materials, Mineral and Mining, 2000
- European Society of Biomaterials

Leadership Roles in Biomaterials Research:

- Editorial Board Member of Journal of Materials Science: Materials in Medicine and International Journal of Biomaterials.
- Excellent track record of mentoring new/young researchers on career/professional development matters towards an independent research career, which has been developed via Spokesperson of Young Scientist Fora for European Society of Biomaterials (2010-2014) and UK Society of Biomaterials (2011-2015) Council Member of Educational Committee of the European Society of Biomaterials (2011-2014). He has also been President (2009-2015) and Secretary (2007-2009) Northern Ireland Bioengineering Society and current is the President (2019) of the Royal Academy of Medicine in Ireland – Section of Bioengineering.
- Symposia organiser at many international scientific meetings (e.g. World Biomaterials Conference, World Congress of Biomechanics and European Society of Biomaterials) focusing on: (i) research advances in biomaterials for bone repair/regeneration and (2) promoting biomaterials education, training and career development within the young academic and research communities.
- Currently Treasurer and Vice-President of Executive Organising Committee for 11th World Biomaterials Congress (<http://wbc2020.org>).

PhD and Postdoctoral Supervision and Mentorship: Since 2003, Prof Dunne has successfully supervised/mentored to completion 30 PhD/15 MSc students. Currently he is supervising 10 PhD/2 MSc students. Additionally, Prof Dunne has managed/mentored of 13 postdoctoral (PD) research fellows and is currently managing 3 PD research fellows. All qualified postgraduate and PD researchers have secured full-time employment in biomaterials/biomedical engineering-based industries or have forged an independent research career in academia.

Recent Publications: Prof Dunne has authored +135 international peer-reviewed journal publications, which comprise of 46 as first author and 40 as senior author. Complete published work list at <https://www.scopus.com/authid/detail.uri?authorId=6701378555>.

Recent Research Grant Income: Prof Dunne's research has been continuously supported by Research Councils, European Union, and Charity funding bodies and also attracts significant interest from industrial partners. To date, he has secured ≈€10.5M (PI) and ≈€14M (Co-I) research funding from EU, EPSRC, MRC, Invest NI, Innovate UK, IRC, SFI, The Royal Academy of Engineering and several major multinational medical device companies.

Nicholas Dunne