

IOP Vacuum Group 49th Annual General Meeting

1st April 2022 inquorate

29th April 2022 re-arranged

Agenda

- 1) Quorum
- 2) Apologies for absence
- 3) Minutes of previous Annual General Meeting AGM 2015
- 4) Chair's report
- 5) Secretary's report
- 6) Treasurer's report
- 7) Monitor and review diversity data
- 8) Election of Treasurer
- 9) Any other business (notification to Secretary in advance)

2) Apologies for absence

3) Minutes of previous Annual General Meeting 2015

IOP | Institute of Physics Vacuum Group

48th Annual General Meeting of the Vacuum Group
12:30 hours on Wednesday 14th October 2015, Ricoh Arena, Coventry
Minutes

1 Welcome

John Colligon chaired the meeting and welcomed the participants. There were 15 members of IOP, and one no-member present at the meeting, a list of attendees is attached at Appendix 1.

2 Apologies

Apologies were received from:

- Dr Andrew Chew

3 Approval of Minutes of 47th AGM held at VS-5, Coventry on 15th October 2014

The minutes of the 46th meeting were approved with an amendment on item 8, page 1, i.e. 'Dr Alan Webb' instead of 'Prof Alan Webb'.

4 Chairman's Report

The chairman's report is attached at Appendix 2

5 Honorary Treasurer's Report

The honorary treasurer's report is attached at Appendix 3

6 Honorary Secretary's Report

The honorary secretary's report is attached at Appendix 4

7 Election of Officers

One Vacancy: Election of the Chair. There was one nomination for Dr Ron Reid. He is a freelance consultant in vacuum. Dr Reid was elected unanimously.

8 Election of Committee

Two vacancies: election of ordinary committee members. There were three nominations and one expression of interest:

- (1) Dr Yueping Fang. He is a Research Fellow at Ulster University, Northern Ireland, UK.
 - (2) Mr Luke Sansby. He is a Technical Sales Consultant at Vacuum Engineering Services, UK.
 - (3) Dr Gianfranco Claudio. He is a Lecturer in Photovoltaics, Loughborough University, UK.
 - (4) An expression of interest to join the committee from Nick Clark (Operations Director, VACGEN Ltd), he can't attend the AGM and will apply next year.
- Dr Fang and Mr Sansby elected unanimously. Dr Gianfranco Claudio was unable to attend the AGM, he is welcomed to apply next year.

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9 AOB

The meeting closed at 13:00 hrs

Appendix 1: Attendees

The following attended the AGM:

Name	E-mail Address	IOP Member
John Colligon	j.colligon@hud.ac.uk	Y
Hazel Assender	Hazel.assender@materials.ox.ac.uk	Y
Joe Herbert	joe.herbert@stfc.ac.uk	Y
Sunil Patel	Sunil.patel@stfc.ac.uk	Y
Alan Webb	alan.webb@open.ac.uk	Y
Hayley Brown	Hayley.brown@plasmaquest.ac.uk	Y
Tom Keenan	Tom.keenan@ccfe.ac.uk	N
Ron Reid	ronreid@ronreid.org	Y
Gordon Jones	Gordon_Jones@waters.com	Y
Matthew Cox	matthew.cox@diamond.ac.uk	Y
Oleg Malyshev	Oleg.malyshev@stfc.ac.uk	Y
Steve Shannon	steve@ss-scientific.com	Y
Steven Schofield	S.Schofield@ucl.ac.uk	Y
Yueping Fang	Y.Fang@ulster.ac.uk	Y
Luke Sansby	LukeS@VAC-ENG.com	Y
Saim Memon	memonsaim@gmail.com	Y

4) Chair's report

- Vacuum Group inaugurated in 1965
- Endeavours to represent those in the vacuum community and to appeal to as many as possible in academe, research and industry by arranging meetings covering the widest possible range of subjects.
- Group Committee reflects the broad coverage of the subjects aimed at by the Group, encompassing academics, representatives of vacuum manufacturers and vacuum users in government and industrial laboratories
- Aims to organise a programme of half-day and full-day meetings on the subject of Vacuum Physics, some of which have taken the form of workshops, technical meetings and training sessions
- Collaborates with other IOP special Interest Groups including: IPSI, Thin Films and Surfaces Group, Plasma Physics Group
- The Vacuum Group takes an active interest in education for those working with vacuum technology.
- The Group maintains close links with the British Vacuum Council (BVC)
- Committee meets about 3-4 times per year

Committee

The Vacuum Group Committee comprises 3 officers (Chair, Secretary and Treasurer) and up to 9 ordinary members and as required, up to 3 co-opted members.

Co-options on an annual basis for up to 3 years maximum

Chair	EurPhys Dr Andrew Chew, CEng CPhys FInstP	ATLAS COPCO Scientific Vacuum Division
Secretary	Dr Richard Moseley, MInstP	Microsaic Systems plc
Treasurer	Vacant	
Ordinary Member	Dr Gianfranco Claudio, CPhys MInstP	Univ of Loughborough
Ordinary Member	Mr Thomas Cosnahan, MInstP	BOBST
Ordinary Member	Open	
Ordinary Member	Miss Grace Law, MInstP	Henniker Plasma
Co-opted Member	Dr Oleg Malyshev, FInstP	ASTEC, STFC
Co-Opted Member	Mr Robert Livesey, CPhys FInstP	Retired; formerly Edwards Ltd
Ordinary Member	Dr Esmail Namvar, MInstP	Univ of Portsmouth
Ordinary Member	Mr Nikeel Patel, MInstP	Teledyne e2v
Ordinary Member	Dr Catherine Scholey, MInstP	The Manufacturing technology centre
Ordinary Member	Dr Danny Sutherland, MInstP	Agilent
Ordinary Member	Dr Reza Valizadeh, MInstP	ASTEC, STFC

Those shaded finish their term on 30th September 2022

Call for 4 x Ordinary Member + 1 x Treasurer to be issued: **11 April 2022**. This will run for **6 weeks** until **23 May 2022**. Elections will be held late July for positions that receive more nominations than vacancies available. The new committee members will take up their post from 01 October 2022 and they will run for four years unless stated otherwise.

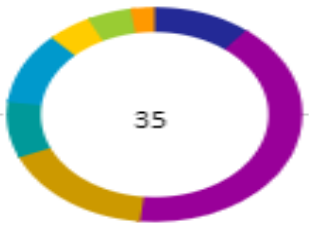
Vacuum Group Membership 19/11/21

830
Current Membership
(Vacuum)

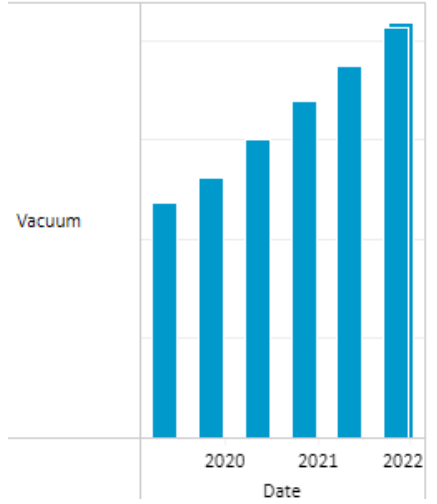
Members	Fellows / Hon Fellows	Associate Members
400 <small>48.19%</small>	40 <small>4.82%</small>	390 <small>46.99%</small>

Location	M	F	All	
United Kingdom, Channel Islands & Isle of Man	520	180	710	86%
Ireland	20	<10	30	4%
Other Europe	30	<10	30	4%
US & Canada	20	<10	20	2%
Other Worldwide	40	10	50	6%

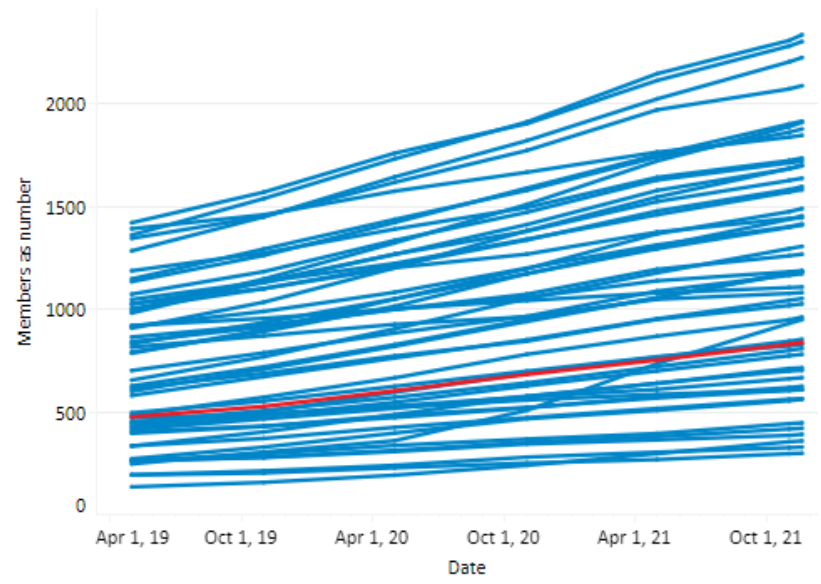
Average Age



cf IOP average age = 52



Number of Members : Time



Age Group	Count	Percentage	Color
15-19	90	11%	Dark Blue
20-29	340	41%	Purple
30-39	140	17%	Yellow
40-49	70	8%	Teal
50-59	90	11%	Light Blue
60-69	40	5%	Orange
70-79	40	5%	Light Green
80+	20	2%	Red
Unknown	<10		Dark Red

Female	210	25%	Orange
Male	620	75%	Grey
Other / Unknown	<10		Dark Blue

Vacuum Group Membership of other groups

Other Groups which Vacuum members also belong to.

Percentage figures represent the portion of Vacuum members who are also members of the listed group. NB members are likely to be members of multiple groups.

Rank of Groups by Crossover Membership	List of Groups	M	F	All	
1	Vacuum	620	210	830	100%
2	Plasma Physics	300	130	440	53%
3	Astroparticle Physics	260	150	420	51%
	Gravitational Physics	270	150	420	51%
	Nanoscale Physics & Technology	300	110	420	51%
	Nuclear Physics	280	140	420	51%
7	Particle Accelerators and Beams	270	130	410	49%
	Quantum Electronics and Photonics	290	120	410	49%
	Thin Films and Surfaces	310	90	410	49%
10	Mathematical and Theoretical Physics	260	130	400	48%
11	Atomic and Molecular Interactions	250	120	380	46%
	Semiconductor Physics	280	100	380	46%
	Superconductivity	260	110	380	46%
14	Energy	260	110	370	45%
15	Computational Physics	240	100	350	42%
	QQQ	230	110	350	42%
	Theory of Condensed Matter	230	120	350	42%
18	Magnetism	240	90	340	41%
19	Optical	240	90	330	40%
20	Molecular Physics	200	110	320	39%
21	Low Temperature	220	90	310	37%
	Materials and Characterisation	230	80	310	37%
	Structural Condensed Matter	210	100	310	37%
24	Environmental Physics	190	110	300	36%
25	History of Physics	190	100	290	35%
	Nuclear Industry	200	90	290	35%

27	Applied Mechanics	200	80	280	34%
	Neutron Scattering	160	110	280	34%
29	Nonlinear and Complex Physics	180	90	270	33%
	Shock Waves and Extreme Conditions	170	100	270	33%
31	Higher Education	160	80	250	30%
32	Medical Physics	150	80	240	29%
	Women in Physics	50	180	240	29%
34	Instrument Science and Technology	170	60	230	28%
	Liquids and Complex Fluids	150	80	230	28%
36	Dielectrics and Electrostatics	150	70	220	27%
	Ion and Plasma Surface Interactions	150	60	220	27%
	Physics Communicators	140	80	220	27%
39	Combustion Physics	150	70	210	25%
40	Biological Physics	130	70	200	24%
	Electron Microscopy and Analysis	150	50	200	24%
	Physical Acoustics	120	70	200	24%
43	Early Career Members	120	70	190	23%
	Polymer Physics	130	60	190	23%
45	High Energy Particle Physics	120	60	180	22%
46	Carbon	120	50	170	20%
47	BRSQ: Magnetic Resonance	100	60	160	19%
	Business Innovation and Growth	110	60	160	19%
49	Printing and Graphics Science	90	60	150	18%
	Tribology	100	50	150	18%
51	Food Physics Group	90	50	140	17%

Vacuum Group Activities

- 2020,2021 plan impacted by COVID-19
- Last Newsletter 2020

2022 plan

One day Conference on Solar Thermal Vacuum Technology **date TBC**

Training Course on Vacuum System Design and Maintenance (4 days)
<https://iop.eventsair.com/vacuum2022>. June 14th-17th

TFSG summer school support **date TBC**

Vacuum Symposium – IOP VG Poster prize (rearranged to July 2022)

2023 *Ion beams for medical applications* Joint meeting with IPSI group

Others items

- Created an Annual IOP Vacuum Group PhD prize: from 2022 (£250 prize plus certificate)
- Student presentation prize at Conference on Solar Thermal Vacuum Technology
- IOP VG Facebook page – contributions welcome

5) Secretary's report

Started role 1st October 2021, taking over from Mr Robert Livesey.

Thank you to Gordon for his hard work and for continuing as a co-opted member of the Committee. Also, many thanks are also due to those who remain for their valuable inputs to the running of the Group and its meetings.

The Committee is always looking for new ideas and help from members. We currently have a vacant role of Treasurer. The committee also seeks to co-opt members from time to time for specific tasks, so please let us know if you are willing to volunteer to serve on this committee either as a full member, or for a short term co-option.

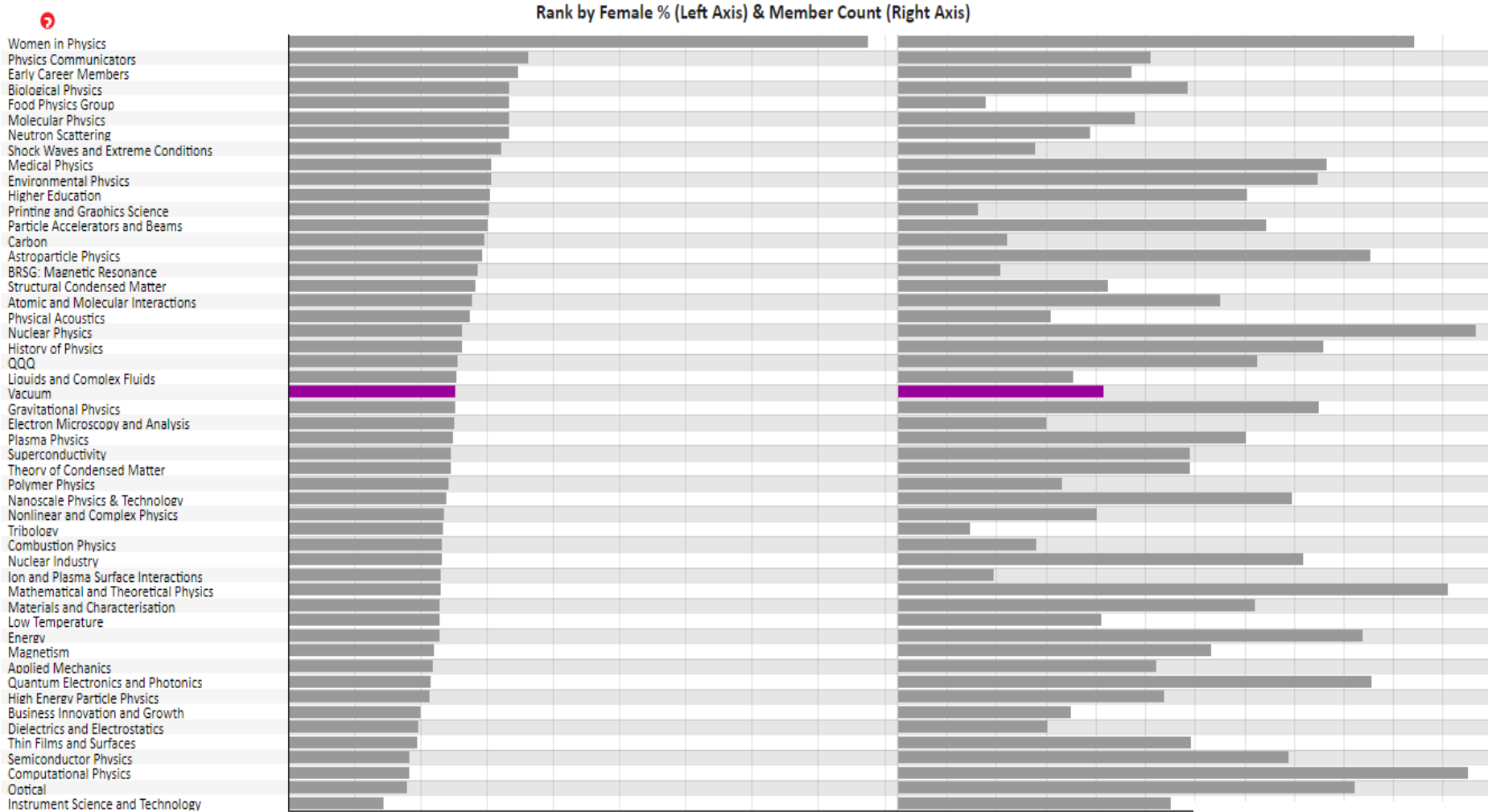
6) Treasurer's report

- 2020 - £962 spent
 - £500 to BVC
 - £462 committee meeting expenses
- 2021 – no spend

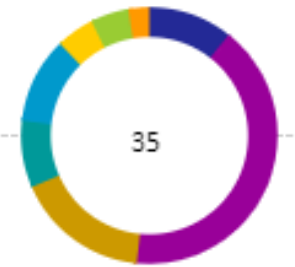
2022 budget	Item	Requested	Allocated
	One day Conference on Solar Thermal Vacuum Technology	£1,000	£1,000
	Training Course on Vacuum System Design and Maintenance (4 days)	£1,750	£1,750
	TFSG summer school	£250	£250
	Vacuum Symposium (VS12)	£500	£500
	IPSI's annual meeting	£250	£250
	To cover the travel expenses for: two face-to-face meetings (all members) and to travel to London for the IoP group meetings (two members)	£2,400	£2,400
	Vacuum Symposium (VS12) Poster prize	£155	£100
	Student presentation prize at Conference on Solar Thermal Vacuum Technology	£155	£100
	Vacuum Group Annual PhD prize	£255	£255
	Totals	£6,715	£6,605

Difference in totals reflects maximum IOP Prize allowance

7) Monitor and Review Diversity data



Average Age



15-19	90	11%	■
20-29	340	41%	■
30-39	140	17%	■
40-49	70	8%	■
50-59	90	11%	■
60-69	40	5%	■
70-79	40	5%	■
80+	20	2%	■
Unknown	<10		■

Female	210	25%	■
Male	620	75%	■
Other / Unknown	<10		■

N.B. IOP membership female ~ 17%

8) Election of Treasurer

No nominations received.

9) Any other business (notification to Secretary in advance)

Nothing received.