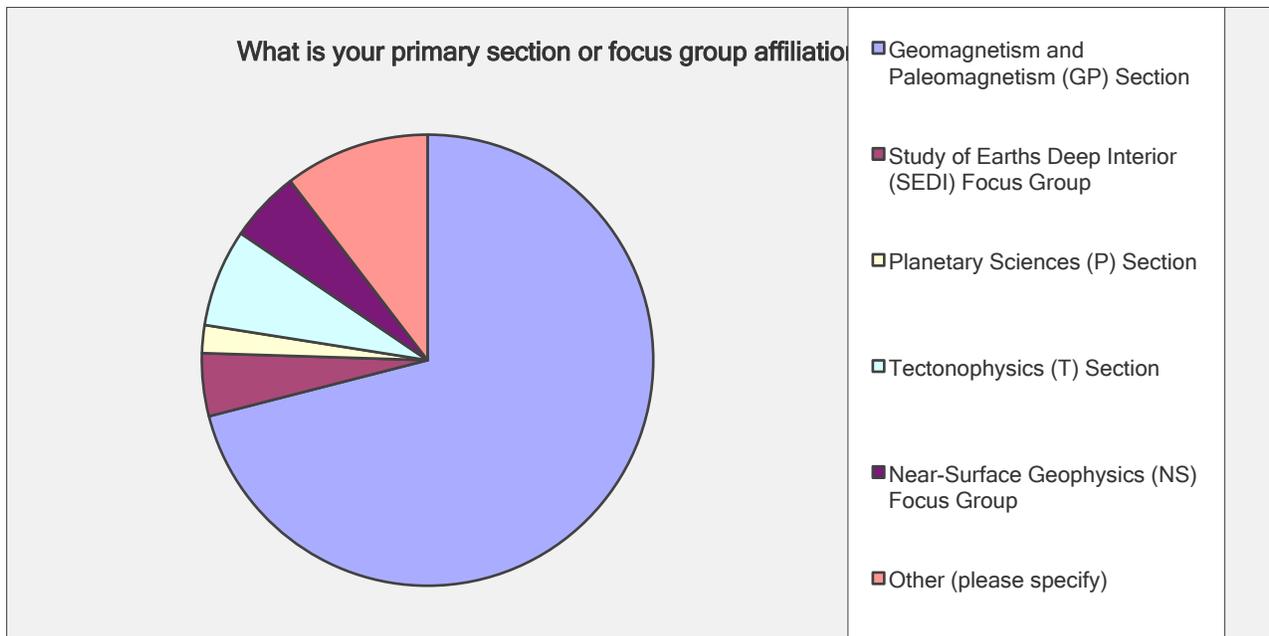


Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

What is your primary section or focus group affiliation?

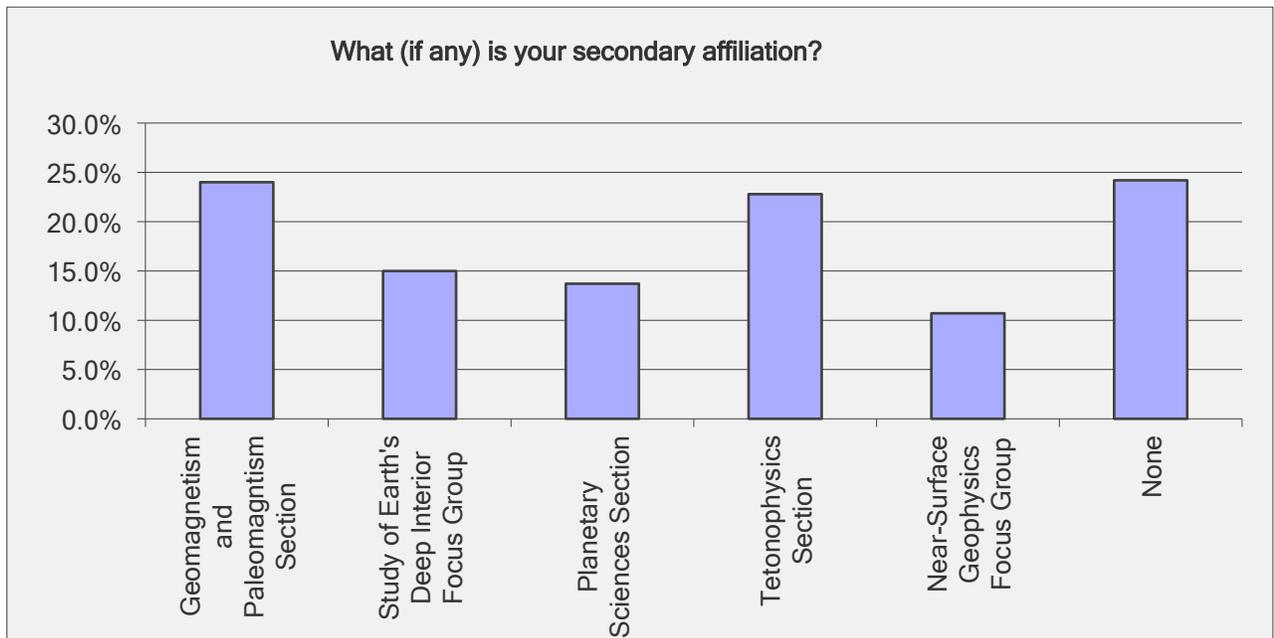
Answer Options	Response Percent	Response Count
Geomagnetism and Paleomagnetism (GP) Section	71.0%	363
Study of Earths Deep Interior (SEDI) Focus Group	4.5%	23
Planetary Sciences (P) Section	2.0%	10
Tectonophysics (T) Section	7.0%	36
Near-Surface Geophysics (NS) Focus Group	5.1%	26
Other (please specify)	10.4%	53
answered question		511
skipped question		0



Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

What (if any) is your secondary affiliation?

Answer Options	Response Percent	Response Count
Geomagnetism and Paleomagnetism Section	24.0%	121
Study of Earth's Deep Interior Focus Group	15.0%	76
Planetary Sciences Section	13.7%	69
Tetonophysics Section	22.8%	115
Near-Surface Geophysics Focus Group	10.7%	54
None	24.2%	122
answered question		505
skipped question		6



Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

List additional secondary affiliations (if any):

Answer Options	Response Count
	156
<i>answered question</i>	156
<i>skipped question</i>	355

Aeronomy, Space Physics	Geoinformatics; Planetary Sciences
Archaeomagnetism	Geology, Tectonics.
AS	Geomagnetism and Paleomagnetism
Atmospheric and Space Electricity, Magnetospheric Physics	geoscience education
B	Global Environmental Change
Bio	GP
Biogeoscience	GP
Biogeosciences	GP Deep Interior
biogeosciences paleoceanography and paleoclimatology	GPR; borehole logging
Biogeosciences Paleoceanography and Paleoclimatology	Gravity
Biogeosciences VGP	Gravity
Biogeosciences, Nonlinear Geophysics	Hydrology Societal Impact and Policy Science
Biogeosciences, Paleoceanography and Paleoclimate	Hydrology, Cryosphere studies, glaciology, environmental monitoring, environmental education
Can't remember	Informatics
climate, paleoclimate, environment/paleoenvir., quaternary geochronology	ionosphere and near earth magnetosphere
cryosphere	ionospheric radio
Cryosphere Science,s Earth and Planetary Surface Processes, Earth and Space Science Informatics, Global Environmental Change, Marine Geology and Geophysics, Paleoceanography and Paleoclimatology	isotope and paleoclimate
Deep Earth, Physical Oceanography	Limnogeology, marine sedimentology
Earth & Planetary Surface Processes, Atmospheric Sciences, Global Environmental Change, Paleoceanography & Paleoclimatology	Magmatic petrology
Earth Inner Core	Magnetospheric Physics
Earth's core dynamics	Marine CSEM Modelling and Inversion
Electromagnetic Induction in the Earth	Marine Geology and Geophysics
Electromagnetism	Marine Geology and Geophysics
Electromagnetism	Marine Geology and Geophysics
electromagnetism for geosciences	Marine Geophysics and Geology
Electromagnetism Sediment dynamics	Marine Geophysics and Geology
EM sounding	marine science, oceanography
environmental magnetism, paleoclimatology	Mineral and Rock Physics
Geobiosciences	Mineral and Rock Physics
Geodesy	Mineral Physics
Geodesy	Modelling- inversion
Geodesy	N/A
geodesy	Natural Hazards, Geodesy
Geodesy	Near Surface Geophysics
Geodesy	near surface geophysics
Geodesy, Cryosphere, Global Environmental Change	Near Surface geophysics, Tectonophysics

near-surface geophysics
No additional
No affiliations as such, but "rock-magnetism" would be one that currently falls under GP
none
Nonlinear Geophysics
Non-linear Geophysics
Ocean sciences
Ocean Sciences
oceanography
Origin, early history
p p
Paleoceanography and paleoclimatology
Paleoceanography
Paleoceanography
Paleoceanography
Paleoceanography
Paleoceanography and Paleoclimatology
Paleoceanography and Paleoclimatology
Paleoceanography and Paleoclimatology
Paleoceanography Geoinformatics
paleoclimate
paleoclimate
Paleoclimatology/Paleoceanography
Physical force fields
Planetary
Planetary
planetary physics near-surface geophysics
Planetary Science section
planetary science section
Planetary Science Section
planetary science, tectonophysics, seismology
Planetary Science. Tectonophysics
Planetary sciences
Planetary Sciences
planetary sciences section
Planetary Volc., Ig. Petrol.
Quaternary climate, rock-magnetism, marine geology, geoarchaeology
Rock and environmental magnetism
rock magnetization
Rock Physics
rockmagnetism
S,V
seafloor observation of electromagnetic signals
SEDI, non-linear, physical oceanography, global envi. change, ...
seismology
Seismology
Seismology
Seismology
seismology
Seismology Section, Geodesy Section
Seismology SEDI Non-linear Geophysics

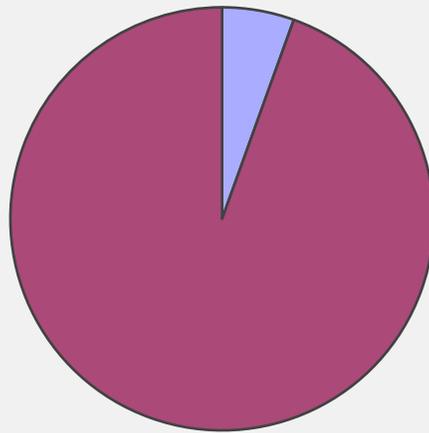
Solar-terrestrial physics
SPA
SPA - magnetospheres.
SPA Space Physics and Aeronomy
SPA-Aeronomy-Magnetospheric Physics
space physics and aeronomy
Space weather
Spatiotemporal data analytics and visualization
Structural Geology, Geothermal
Study of Earth's Deep Interior Focus Group
surface processes, climate change
Tectonics
Tectonics
Tectonophysics
tectonophysics
Tectonophysics
tectonophysics
Tectonophysics
Tectonophysics
tectonophysics geochronology
Tectonophysics Seismology
VGP
VGP
VGP and Near Surface
volcanics
volcanism
Volcanology
Volcanology
volcanology education tectonophysics
volcanology paleoceanography
volcanology,
VOLCANOLOGY, GEOCHEMISTRY, AND PETROLOGY

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

In the last 5 years, have you changed your primary affiliation from GP to another section or focus group?

Answer Options	Response Percent	Response Count
Yes	5.5%	27
No	94.5%	465
	<i>answered question</i>	492
	<i>skipped question</i>	19

In the last 5 years, have you changed your primary affiliation from GP to another section or focus group?



■ Yes
■ No

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

If yes, to what section or focus group did you change your primary affiliation?

Answer Options	Response Count
	25
<i>answered question</i>	25
<i>skipped question</i>	486

T
geodesy
GP -> TP
Near surface
Near surface
Near surface
Near Surface
near surface geophysics
near surface geophysics
near surface geophysics
Nearc Surface
Near-Surface
Ocean Sciences
Paleoclimatology
Planetary Science
PP
SEDI
SEDI
SEDI
Space plasma physics
Tectonophysics
Tectonophysics
Tectonophysics
tectonophysics
Tectonophysics

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

If yes, is there a reason why you changed your affiliation that you would like to share?

Answer Options	Response Count
	19
<i>answered question</i>	19
<i>skipped question</i>	492

Change in focus of research

I have a wide range of interests

Because I am a student who hasn't really found a focus yet

Because many of my developments have been applied within this group rather than the GP

My research heavily incorporated paleomagnetism of a volcanic unit this year.

Because there are close connections with some of my researches

As an EM geophysicist, I felt more a part of the community in SEDI since GP is so focused on paleomag/geomag and not explicitly on EM

My research is about geo-electromagnetics

GP has less sessions.

The application (submarine gas hydrate exploration) was better represented by a gas hydrate section in Ocean Sciences

Yes, because I work with magnetic fabric

I think that the deep earth is more reflective of my research than GP. That is, I think the technique doesn't define my interest / my research as much as the target does.

When I was elected President-elect of the SEDI focus group, I figured it would be appropriate if I switched it to my primary affiliation.

the source of the earth's magnetic field and its limits on age seems to be an interesting problem.

I was interested on earthquake

Better fit

EM is not represented in GP. Colleagues from other fields (Tectonophysics, Seismology, Volcanology, ...) have never visited a GP session and don't know that EM could be found there.

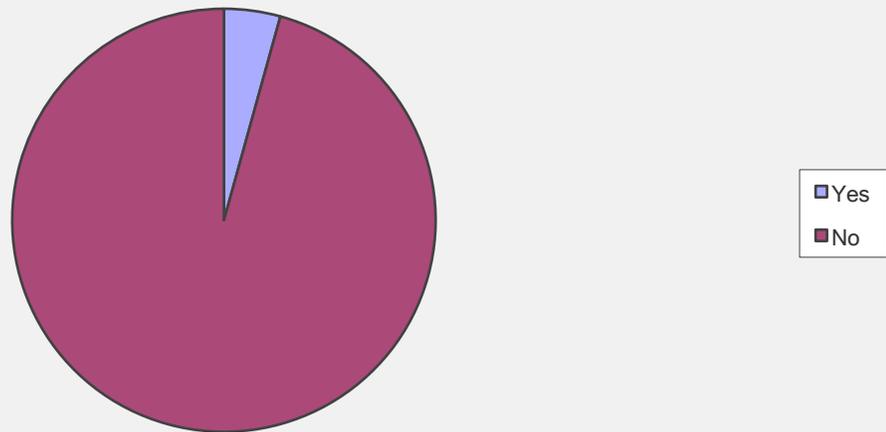
Closer to my research area

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

In the last 5 years, have you changed your primary affiliation to GP from another section or focus group?

Answer Options	Response Percent	Response Count	
Yes	4.3%	21	
No	95.7%	465	
	<i>answered question</i>		486
	<i>skipped question</i>		25

In the last 5 years, have you changed your primary affiliation to GP from another section or focus group?



Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

If yes, from which section or focus group did you change your primary affiliation?

Answer Options	Response Count
	19
<i>answered question</i>	19
<i>skipped question</i>	492

Paleontology
 Near-Surface Geophysics
 Paleoclimatology
 Tectonophysics
 Near surface
 Near Surface Geophysics
 SEDI
 Tectonophysics
 Neotectonics
 physics
 GP to SEDI
 Seismology
 volcanology or tectonophysics
 Near-surface geophysics
 Space Physics and Aeronomy
 SEISMOLOGY
 Hydrology
 Near-surface geophysics
 NS

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

If yes, is there a reason why you changed your affiliation that you would like to share?

Answer Options

Response
Count

14

answered question

14

skipped question

497

I'm interested in the studying of the Earth's magnetic field with its possible impact on the biosphere (in particular ancient human societies), through the possible connection with paleoenvironments and paleoclimates.

I've become more interested on investigating deeper sections within the Earth's crust

More directed research

Student exploring possibilities

Because many of my colleagues in the field of EM exploration are registered in GP rather than any other section

I switch back and forth since I feel homeless as an EM researcher.

I went to a few talks at the fall 2013 meeting based on searching the program for "magnetotellurics" and quickly noticed that most MT talks were in GP sessions. As a graduate student in EM geophysics I did not know before that that most of the EM community within AGU resides in the GP section.

Although still doing paleomagnetic work, joined other sections due to regional interests
papers related to paleomagnetism

Don't feel entirely home in either, shift of work focus to looking deeper than what is commonly considered near-surface

Change of work position

I have been working in the regional geomagnetism.

This is the main area of focus for my Ph.D.. My Masters degree was hydrometeorology.

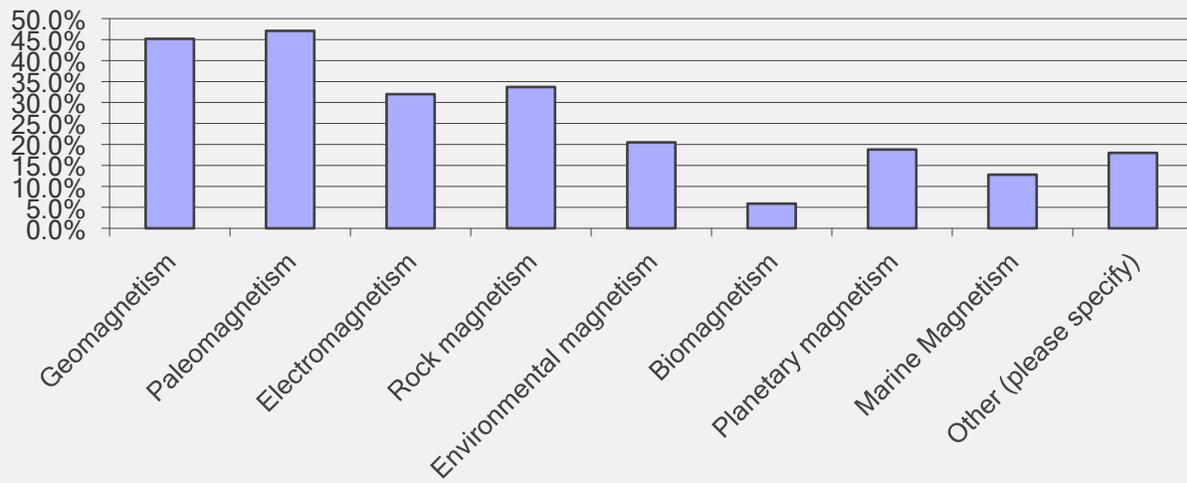
Shift in research focus

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

Which term(s) would you use to classify your own work (select all that apply):

Answer Options	Response Percent	Response Count
Geomagnetism	45.2%	216
Paleomagnetism	47.1%	225
Electromagnetism	32.0%	153
Rock magnetism	33.7%	161
Environmental magnetism	20.5%	98
Biomagnetism	5.9%	28
Planetary magnetism	18.8%	90
Marine Magnetism	12.8%	61
Other (please specify)	18.0%	86
answered question		478
skipped question		33

Which term(s) would you use to classify your own work (select all that apply):



Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

Please provide any comments in support of or against the name change.

Answer Options

Response
Count

442

answered question

442

skipped question

69

I think, the name of the group is very suitable, and there is no need to change it. It will attract people, who are involved in geomagnetic, paleomagnetic and other studies of Earth's magnetic field and their implications towards different disciplines.

"Geomagnetism and Paleomagnetism" is perhaps too limiting.

"GPE" doesn't explicitly include rock magnetism, mineral magnetism, biomagnetism, planetary magnetism, or environmental magnetism. I think that plain old "Magnetism" would be more appropriate, more inclusive, and less of a mouthful than "Geomagnetism, Paleomagnetism, and Electromagnetism".

1) I believe the geo- and paleo- magnetism is still the core of the group. 2) Many "paleo" magnetists working on other "types" of magnetism like "archaeo", "environmental", "rock", "planetary" consider themselves as "paleomagnetists". So, "paleo-" is a general term suitable for all.

A long name that repeats the same root word ("magnetism") is boring and off-putting. Why not call it all "Geomagnetism"?

A name change would give a bigger representation to a growing community.

A too narrow focus seems inappropriate in this field.

Acceptable

Adding the electromagnetism word to the current GP Section name is long overdue, especially considering the numerous papers and publications in this growing field.

Addition of 'E' to 'GP' is the current question. I am opposed to that in principle. A few years later we might be asked to add PM for planetary magnetism, then it could be addition of MA for magnetic anisotropy. I recommend either keeping GP as is, or make it truly inclusive by dropping P and making it GM for geomagnetism, the mother discipline that is the umbrella for us all.

Against name change

Against name change: the GP community is already very rich and diverse.

Against the change-

against the name change

Agamst

agree to change name

Although I understand very well the issue against the name change (I was against the name change before), I would like to support the name change because my sense-of-wonder prefers the interaction between rock magnetism and electromagnetic geophysicists, such as active fault survey monitoring and lunar MT surveys.

Although I work in both areas, I am uncertain of the useful tie-ins between magnetism and electromagnetism at the level of an AGU section. Overall I think the differences outweigh the areas of overlap and attempting to merge the two fields would not be productive.

Any change in the name of the section could be perceived, positively, as a section that is responsive and reactive to advances in our fields. This would likely attract new membership in the direction of the 'shift' of the time. This said, I have the perception that electromagnetism is already integrated in the GP section (ex.

multiple sessions at annual meetings). Perhaps the science is in GP but the memberships are not? Without statistics one cannot evaluate whether the name change to GPE could even increase membership. Are all biomagnetist, planetary magnetist, researchers studying the ionosphere, etc... members of GP? Magnetism, as a physical property of naturally occurring matter, has contributed to a great number of earth and planetary science problems. It is evident that GP if considered in the strict sense of the term appears exclusive. If a name change is to be made, GPE is not a bold enough step, in my opinion.

Approve of the change in name

As a physical oceanography who uses electromagnetic methods to measure water motion, the addition of EM to the end of the group name better includes my connection with this group.

Change It if you want it was changed before from plain geomagnetism.
change it.

Change to GPE is favored as many emerging applications tend to use geomagnetism as a factor rather than as the main focus area.

Changing the name slightly seems like a simple and easy way to address the problem.

Changing the name sounds like an excellent idea!

Currently I am neutral as to any name change

Definitely a growing field and a frontier physical property.

Distinguishing between "electromagnetism" (which could extend outside of the Earth sciences) and "geomagnetism" seems like semantics. But either way, I don't think it matters that much. People are free to join or not join GP so I don't feel the name of the section matters that much, or that it particularly needs to be changed.

Do what it takes to survive.

Either GP change name or a new section should created ie EG Electromagnetism for Geosciences either is fine

Electrical properties, both in the field and in the laboratory fit naturally into this Section. The E-word could receive as much emphasis as the M-word.

Electromagnetic induction was a Working Group under IAGA and has now been changed to Division V

Electromagnetism has been associated with Geomagnetism in other organizations I believe so no harm in including it.

Electromagnetism HAS NO HOME in AGU! This is a long-standing issue that has been avoided by GP Section Chairs year after year after year. It is time to right this historical injustice. Rename GP to be inclusive and have EM somewhere. GPE? GEP? Or alphabetically EGP?

Electromagnetism is a bit too ambiguous word. Work out a better one, please.

Electromagnetism is associated to electrical properties.

EM being represented in the group name would be very welcome

EM geophysics is a growing speciality field and correctly categorizing this work will make it easier to share information amongst those working in it.

EM is far from Paleomagnetism, but close to Geomagnetism.

Excellent suggested change

Expressly including the Electromagnetic geophysicists in the GP name would be a great way to increase the membership, and show how inclusive our section is.

Extend to EM

Fine with me

Fine with the name change

Fine.

For it

For me, EM even earlier was recognized as being part of geomagnetism.

For: More inclusive of EM community Against: GP is a well known name

From the perspective of just recently becoming a part of this community (i.e., beginning a PhD program in EM geophysics within the last five years), I think the name change would be very effective at growing the membership of GP. When choosing my affiliation as an AGU student member I looked for a section with "electromagnetism" in the title and found none, hence why my initial primary affiliation was tectonophysics - I did not realize until after going to the meeting that GP was the home of the MT community in AGU. Had the title been GPE when I joined, I would have chosen this section as my primary affiliation right away.

fully support the name change

Fully support the name change

G Geomagnetism P Paleomagnetism E Electromagnetism A Archeomagnetism B Biomagnetism P

Paleoenvironment etc.

Geomag and paleomag are (or can be) global i.e. whole-earth studies; electromag is more surficial.

Geomagnetism and Paleomagnetism are more or less the same for theoreticians, EM is quite different. All 3 are different experimentally

given the background information you've given me I would now support the name change

go ahead.

go for it

good idea

Good idea

Good idea although electromagnetism seems too broad. Sorry to say I don't have a useful alternative

Good idea. I support the proposal.

GP is a large enough section and needs an identity

GP session has good history as part of AGU and name change may result in demise of this section

GP should take the opportunity to change its name and highlight the interdisciplinary aspect of the section and the system science approach.

GPE is fine.

Grow or perish

Happy to see it - EM already present in section, and should be recognised

Hasn't this name change been adopted by IUGG and EGS ?

Have no objection to the name change

I absolutely support the name change. This was discussed at the GP business meeting in 2014 and appeared well received. As a consequence the EM community is expecting this to happen, and if it doesn't it will send a strong and clear message that GP does not want to be the home of the EM members of AGU. That will be disastrous.

I agree

I agree

I agree that there is no good place for EM people within AGU at the moment, so I am in favor of the name change.

I agree the change because it covers a wider field of interest

I agree the name change of the GP section

I agree the name change. My research interests are in electromagnetic phenomena related to earthquakes. At present, however, no suitable Section Group for this exists in AGU.

I agree the proposed name change because the new name sounds to cover wider range of our studies.

I agree to change the name of GP section

I agree with name change to GPE

I agree with the name change- just keep a sign of magnetic in the name too

I agree with the proposed change

I agree.

I am a bit hesitant to see the name change.

I am against the name change

I am against the name change. There is a longevity to the name GP that I feel should be respected. An addition to the name could dilute the overall meaning of the group. While GP is one of the smallest, it is, as stated, one of the oldest. The name should have a grandfathered standing, in much the same way that AGU has not been re-named to reflect its international status or inclusion of fields beyond geophysics.

I am always in support of making the name reflect the activity.

I am concerned that changing the name of the section changes our "brand", that is the easy and clear recognition of the history of our section's contribution to the larger scientific community. Furthermore, it may serve to alienate other members of the -magnetic community which feel at home within the GP section but aren't associated with Geomagnetism, Paleomagnetism or Electromagnetism.

I am currently retired from a career in NOAA and the World Data Center System and Geomagnetic Field Variation indices, including satellite anomalies. I retired from NOAA after 32 years but remained a Guest Scientist and NGDC and was Scientific Secretary of the SCOSTEP (Scientific Committee on Solar-Terrestrial Physics) for about 13 years. I am still a life member of SCOSTEP. My time in government was spent on classifying geomagnetic effects of solar activity, magnetic storms arising from causes other than solar activity, and indices to measure the impact of geomagnetic storms, especially in auroral regions. From my first affiliation with AGU, I found a home within the GP Section of AGU. I also worked naturally with scientists, engineers and DOD persons involved with satellites and their anomalies. This is just to say that I don't know a more generic title for a part of AGU that is sufficiently broad to include all those activities than Geomagnetism-Paleomagnetism, unless it was the title Solar-Terrestrial Physics.

I am for the name change

I am in favor if including electromagnetism

I am in favor of changing the name to better reflect activities carried by the group.

I am in favor of the name change.

I am in favor of the name change. We need as big of a footprint in the AGU as we can get.

I am in support of including EM into GP

I am in support of the name change.

I am in support of the name change. Welcome, electromagnetists!

I am in the support of the name change

I am indifferent. Perhaps the Section could be renamed "Magnetism" and drop all the modifiers.

I am much in favor with an inclusion of electromagnetic induction into GP. The same observational datasets are frequently used for both types of studies.

I am negative to change the name of GP. Electromagnetic geophysics sounds like geophysical surveys not paleomagnetism. Alternatively, the "Geomagnetism" only would work nicely.

I am neutral.

I am not against change, but I think that changing the name of a section will not bring new membership. It will simply show to the rest of AGU that we are in trouble.

I AM NOT IN SUPPORT OF THE NAME CHANGE

I am rather against the name change: why highlight Electromagnetism? There are other sub-disciplines in the section that would also deserve this "upgrade".

I am very much in support of the change as my primary interest is magnetotellurics.

I approve the proposal to joint into the new GPE section!

I believe that the name change could be more attractive for the researchers

I believe it is appropriate to clearly include the EM community

I believe that a name change will have the effect on cosmetics but not change the actual interest in our field.

I believe that adding EM to the name of this section will grow significantly the amount of affiliated members

I believe that it should be kept the same because there will be segregation between the joining groups and

that the new addition could take away from the member benefits of geo and paleomagnetism.

I believe the section name "Geomagnetism and Paleomagnetism" is fairly clear and well understood by most geoscientists for what it is.

I do not have any suggestions

I do not see a need for a name change. AGU encompasses much more than geophysics, but the name is a brand as much as a descriptor of the organization. I see GP in the same manner. If the name must change, I prefer something more inclusive of all facets of magnetism.

I do not think that a simple change in name will lead to a significant increase in the number of members affiliated with the GP section.

I don't agree.

I don't feel very strongly about this issue either way. A small reservation about the GPE name is that it is quite wordy and will inevitably lead to our section being referred to casually by its acronym.

I don't see a problem with it, as long as it does not dilute the membership too much. When I work with people doing magnetic surveys, I always do the rock mag - there is overlap

i dont see what is the problem with the current name

I don't think name change is necessary.

I dont think that a name change will help.

I favor the change

I favor the name change. My concern over section growth or decline is outweighed by the fairness issue. EM researcher are a sizable fraction of GP and support our activities. We should recognize that fact and specifically include them in our name. For those who object on historical grounds, we should note that "GP" will still comprise the first two letters in GPE.

I find the name change a good idea.

I fully support the name change since we are a large EM community and I always felt a bit lost and without visibility.

I fully agree that the idea should capture many of the EM specialist in the exploration community.

I fully support the change to include electromagnetics in the newly formed GPE section.

I fully support the name change!

I fully support the name change. And the timing is excellent, as the EM method is starting to garner more attention and respect over the last handful of years I've been involved with it

I fully support the name change. The new name better reflects my research interests.

I have always thought of EM as an integral part of our section.

I have been retired a number of years but believe an expanded role for the section is warranted.

I have no objection to the change

I have no objections...

I have no problem in a name change if it provides a better description of all disciplines included

I have no strong feeling about the name

I have no strong feelings on the matter

I have no preferences regarding a name change.

I have nothing against.

I have worked in two large geophysics departments and have only rarely, if ever, spoken to the EM people in relation to research or teaching. The overlap with my own work in paleomagnetism/environmental magnetism doesn't exist at the moment.

I hope to change the name.

I like GP and wonder exactly how many EM people feel disenfranchised by this name (and how many GP folk might drift off if EM was emphasized by including it in name.

I like it!

I like it, but it does depart from the normal basis of section naming by basing it on a measurement technique rather than a geological phenomenon - and so we might lose a few geologists.

I like it, I don't think it would actually make any difference

I like the general name

I like the idea of a name-change. Not certain GPE is the best change/option, but inclusiveness would be good if it isn't clear to electromagnetists that GP can be for them too!

I like the name change. Maybe we can also incorporate planetary magnetism?

I see broadening the disciplinary home of GP as likely the most effective way to grow the section membership. This of course dilutes the voice and influence of the current more narrowly defined section. Thus it depends on whether membership size or coherency of the group is most important.

I see no compelling reason to avoid changing our name. How could it hurt by being more exclusive?

I see no impact in a name change--tribal groupings are lost on me.

I see no problem with the name change.

I see no reason to change the name of the section.

I strongly agree with the name change as proposed.

I strongly support for the name change.

I strongly support the change of GP to GPE.

I strongly support the name change

I strongly support the name change

I strongly support the name change to Geomagnetism, Paleomagnetism, and Electromagnetism. It will give the electromagnetic community a clear home within AGU, something that has been sorely lacking.

I strongly support the name change.

I strongly support the name change. May be one may consider "Goelectromagnetics" instead of "Electromagnetism"

I strongly support the name change. Natural electromagnetic phenomena are a fundamental part of the whole of geomagnetism.

I strongly support the name change. This change would better reflect the important contribution from the EM community to GP section.

I strongly support to add electromagnetism to the section name.

I suggest that the name be simplified to just the Magnetism Section. Hydrology Section is short and sweet, and includes quite a variety of sub-disciplines.

I support the name change.

I support

I support a change that makes our section more inclusive. for example, why not just 'Magnetism'? that would include the EM,MT communities and others we haven't thought of yet.

I support a name change to GPE

I support a name that also reflects the Electromagnetic induction studies

I support an name change that is more representative of the broad range of research currently included under the GP title

I support changing GP to GPE!!!!

I support changing the name to GPE - it retains the now-known GP part, but gives the EM folks a home - good for them and good for growing our section.

I support changing the name.

I support the name change. I also think AGU should get rid of primary vs secondary affiliations since I don't think sections should be competing like this.

I support the name change. I would even be more satisfied if it is changed to Earth Magnetism (which may include all the others and even more)... I know, it is synonym of Geomagnetism, but for some reason the latter has taken a narrower meaning.

I support the name change. The world changes so GP must change as well.

I support the namechange

I support the proposed change.

I support the proposed name change.

I support the proposed name of GPRE (Geomagnetism,Paleomagnetism, Rockmagnetism and Electromagnetism)

I support the section name change.

I support this change

I support to add Electromagnetism, to reflect that this is a discipline per se

I support to include the Electromagnetism word in the name, in order to include the wide electromagnetic community

I support to the name change.

I support very much the name change

I think "Geomagnetism" is already covering global discipline, and don't think the name change is necessary.

I think GPE is valid and really hope it achieves its aim of increasing the group's size. It is unfortunate that it omits rock and environmental magnetism which can stand alone from G and P but the former name already did this.

I think it a good idea to change the section name, though I don't have a good name suggestion at this point.

I think it is a good idea to include EM in the GP section.

I think it is good to keep the EM people with the rest of magnetism people so i am ok with the change of name

I think it is timely.

I think its a good idea, but it's the opinion of the EM geophysicists that we are trying to attract that will decide if it's a good idea or not.

I think it's fine to change the name if it will engage more members to join the section.

I think name is sufficiently specific and appropriate.

I think that it will be more complex to change the name, because inside of Paleomagnetism there are many branches, but if it is necessary to change for to grow is ok.

I think the name change is a good idea because it will "capture" more members for the GP section.

I think the name change is an excellent idea and reflects the breadth of the section.

I think the name change makes sense. In which section do EM people currently associate? Will the name change increase membership or just be more inclusive for current members? Either one is good.

I think the name change to GPE would have a nice message.

I think the name change will help to grow the membership in our section

I think the question is one sided. We should be asked whether we think the name should be changed, and if so, be able to give a suggestion rather or choose from multiple possibilities rather than having only one forced option.

I think this great as this would bring clearly together some works based on electromagnetism that can be usually scattered in several sections.

I totally support the name change as the actual name do not reflect work on induction.

I welcome the name change to GPE

I would be happy with adding EM to the name

I would keep the name

I would like to see the magnetism fields under an even broader umbrella, such we have within EGU: Earth and Planetary Magnetism

I would prefer a simpler name - Magnetism and Electromagnetism

I would prefer to change the name.

I would probably change back to GPE. IAGA has recently acknowledged the growing size and importance of EM by upgrading the field from Working group to Division status.

I would support the name change into GPE

I would support the name change, in hope that this will widen the scope of our Section and promote interactions with a variety of other geosciences.

I would welcome EM specialists to the GP section, and think that the name change is justified I'd be in favor of the name change.

I'd support the proposed name change.

If a GPE section better represents the EM geophysicists than the sections they're presently scattered through, that's probably the best argument for. It's easy enough to imagine that there'll be more research interests in common between the EM geophysicists and GP than between EM and the others. The main statement against--it's only a statement, not an argument--is that the name change doesn't actually expand any group or community.

if electromagnetism is added, also other disciplines like rock magnetism or environmental magnetism should be included in the name in order to treat everyone the same - or be simple and called it Magnetism Section If it serves some important political purpose, I am in favor of the name change. On the other hand, there is near zero overlap between what I do (~paleomagnetism) and the EM world.

If the number of members with electromagnetism as specialty is significantly greater than those with rock magnetism as specialty, the change is valid for me. Otherwise not.

If there's a group that's left hanging in the current structure, it would be good to give them a home.

I'm fine with the section name as-is.

I'm in favor.

I'm in support of the name change because the electric field is an important information for the Earth sciences.

I'm not active in paleomag anymore so the weight of opinion should rest on the active cohort. That said, adding EM seems fine to me and wouldn't have bothered me in the past.

I'm not familiar with the usages of the term "electromagnetism" in geophysics, as opposed to uses in physics.

I'm open to it.

I'm supportive of making the name more inclusive.

In favor of the change.

In favour

In favour

in my opinion, electromagnetism is closer to seismology (propagation of XX waves) than to paleomagnetism ---

In support

In support of A name change: GP is not representative of the breadth of the section. I am in favor of very simple names rather than adding more words.

In support of name change.

in support: growth

include EM induction

Including EM geophysicists would encourage collaboration and grow the focus group.

inclusivity is good.

Increase of membership is important, hence name change based on clarifying the field of interest is a good idea

indifferent ..abdicate responsibility to those more involved in running the GP section

It does not change too much if we change the name.

It is certainly important to include other geophysicists like magnetotellurics experts, for instance, in our session; these experts now participate either to seismology, tectonophysics or similar sections.

It is fine, because it is presice.

It is mandatory to incorporate electromagnetism to the section.

It seem as though it may help the role of the Section in AGU.

It seems like a good idea to me to get all the "magnetism" together.

It seems like a logical union given that electromagnetism forms the basis of much paleomagnetic theory.

It seems sensible to house the clearly related EM field under the GPE banner, particularly if GP member numbers are stagnating and members of the EM community are feeling underrepresented.

It trully describes the spirit of the group: The Earth's magnetic field: Past and present, its properties, intricacies, and its changes through time.

It would be great if EM would be mentioned in the section name

It would be great to have a more unified group that could help expand applications of research in this field.

its a good idea to be more encompassing than less!

It's a worth idea

it's good to grow, I agree with new name

It's great!

It's ok to me the proposed name, but it is not going to be the solution. The problem to me is that magnetism has lost its "charming" against new more "fashionable" topics. What we really need is to encourage the use of magnetism in a broad sense. Many people do it, but not enough.

It's past time to do this! If we don't the EM community will receive a loud message that they are not welcome, and GP will be of less interest to the rest of AGU. I will feel strongly motivated to move my primary affiliation to SEDI instead.

magnetism in all forms should be embraced.

Many planets share the same kind of dynamo processes. Hence, Geo- becomes a limitation on what may fall under this section names.

More inclusive is better to enhance interdisciplinary science

My major is EM induction, so this time's action is very appreciated.

My perspective is that by adding more descriptors to the name, other disciplines are implicitly being left out. How about environmental magnetism, planetary magnetism, rock magnetism, etc? What I like about the current name is that it brings together the study of the modern (geomagnetism) with study of the ancient (paleomagnetism). It is only when casting a narrow view of what each of these actually consists of that we run into trouble—I think the name can continue to serve as a big tent. If there is a name change, I think that it should accomplish the goal not of tacking on one discipline, but rather articulating as big of a tent as possible. A name such as "Earth and Planetary Magnetism" could accomplish this goal. As a side note, I am a bit puzzled why we are being given the opportunity to comment but not to vote on this proposal.

My research field has changed from crustal scale EM, to rock magnetism, to near-surface geophysics, and now I am back in the field of marine geophysics working with magnetic and electromagnetic data. My preference would be : Magnetism and Electromagnetics Section

n/a

N/A

NA

na

Name change is fine - magnetism is part of electromagnetism, after all!

name change is OK for me

Name change is ok. Some multiple possibilities might be seeded for.

name change sounds fine too me

Name change unnecessary: how big is the EM section within GP? And will we add all other '...magnetisms' in the future as well? 'GP' now is a renowned 'trademark', why change that?

Name change would attract more scientists.

Name ok, however is paleomagnetism not part of geomagnetism? "Geomagnetism and Planetary Magnetism" is another possibility.

Name should be changed to represent the what is current today in member interests. If EM doesn't have a home put EM in the name. Its all electromagnetic aspects of a planet anyway.

NC

neutral

neutral

neutral on the scientific ground, positive on the strategic ground

neutral, but GPE sounds a bit awkward

New name will widen the section focus. This I find good.

No change I hope !

No comment

No comment.

No comments

No comments

no comments

no opinion

No problem with the name, it's OK

No strong opinion but it isn't clear to me that EM scientists have a lot in common with GP scientists in terms of research questions or even methods however this may just be my ignorance of what EM scientists do.

No strong views

none

None

none

None

none

None

Not much interest

Not sure whether it would make any difference, but if the committee believes so, then great. I'm a paleomagnetist, so as long as that's in the name then great!

Nothing to add.

ok

ok

OK by me

ok either way

OK with me.

Ok.... fine

Our section can continue to have influence within AGU, if the community of electromagnetic (EM) geophysicists will be included.

Overall supportive, although I suspect that the change will have little impact on my personal relation with the Section.

Overall, I don't agree with this proposed name change to GPE. I can maybe see some GP overlap with Electromag methods and interests, but if we are to essentially expand the Section to include wider magnetism-related fields (but not SPA!) then why not just call it "Magnetism" (M) or maybe "Terrestrial & Planetary Magnetism" (TPE). Such names would allow for much broader growth of the Section, and not leave us with chalk (GP) and cheese (E) with not much congruence between them.

PEG. Paleomagnetism Electromagnetism and Geomagnetism

Perhaps a merger to form GEM would also make sense: Gravity, Electromagnetic, Magnetism (all three in all forms)

Prefer current name

primarily working on EM, would appreciate an AGU section with EM in the name

Seems fine

Seems inevitable

Seems like a good idea. It might bring in more of the atmospheric electricity community. I think there is intellectual overlap.

Seems logical

should be inclusive

Sounds like a rubbish bin for odds & sods

Sounds good to me

Sounds good to me!

Sounds good to me.

Sounds like a reasonable decision

Strong support.

Strongly support - more members the better

Strongly support the addition of electromagnetism and will happily make GP&E my primary affiliation

Strongly support it

Suggested name change seems more inclusive.

support

Support

Support

support

support a name change if the Section leadership feels that may have an impact.

Support change to increase membership

Support name change.

Support the idea

Support!

Support: new name makes things clearer.

Supportive - a more inclusive group is a better group

supportive, I think it is scientifically exciting to work in the area where geomagnetism and inductin/electromagnetism overlap

Sure - seem like a good idea

The change makes sense.

The change of name is most welcome. Perhaps, it is long overdue.

The change seems reasonable. I think too much subdivision of areas of expertise harms the interdisciplinary nature of Earth & Space Sciences

The electromagnetic community within GP has been and continues to be an active and integral part of GP. It organizes regular sessions at AGU meetings that are well attended and received. Research efforts into global electrodynamics further cement the linkages between the EM and geomagnetism communities. I am stronly in support of changing the name to GPE to recognize and encompass the EM subdiscipline with the section.

The EM community is big. If changing the name, let's make sure Geomagnetism is still adequately represented in the section leadership.

The former IAGA Division 1 Internal Fields Working Group I.2 Electromagnetic Induction in the Earth was recently elevated to IAGA Division VI Electromagnetic Induction in the Earth and Planetary Bodies reflecting the growth of electromagnetism as a mature subdiscipline (distinct from geomagnetism and with its own internal subdivisions). It would also be good to see this growth recognized in the AGU structures.

The geomagnetic observatory is moving rapidly in the direction of including electromagnetic variations as a strong focus. Endusers include power grids operators, spacecraft operations, directional drilling. Etc. GP should be more inclusive. A name change AND a focus change is in order.

The GPE name correspond to the real activity in geophysics

The idea is good.

The inclusion of EM sounds like a great idea

The inclusion of the term Electromagnetism (EM) will reflect much better my research. The EM community is now becoming an independent division in the IAGA.

The increasing importance of EM over the past two or three decades both in applied geophysics as well as basic research.

The name change is fine with me. It may strengthen EM personnel's knowledge in understanding the source of the "signal's" they utilize, and better understand physical properties.

The name change is very important for the visibility of EM within AGU and to have a "home" within this section and to have our views and suggestions brought forward.

The name change is welcome.

The name change makes a lot of sense to me, and GP has been my primary affiliation for nearly 40 years.

The name change seems appropriate and logistically helps EM geophysicists and keeps the GP section viable.

The name change would follow the lines adopted by the IUGG.

The name change would reflect my field of work much better.

The name may include Planetary Magnetism.

The name should include the term "Geomagnetism"

The new name is fine and covers nicely the discipline

The present GP sections has a different approach and research questions from that of EM communities

The proposed name change dilutes the name of the section by adding a random subfield. By adding electromagnetism not much will be gained. Near surface guys won't switch to GPE just because of a name change. That's wishful thinking.

The proposed name change seems like a positive move for all parties involved.

The proposed name change to electromagnetic (EM) geophysicists is more inclusive to members of a broadening field; I support it.

The section name should not be changed. GP should be kept for branding, for the same reasons "AGU" has been kept, even though the organization is international (not just American) and has evolved beyond classical geophysics. While small, GP has one of the most loyal memberships within AGU. The electromagnetism community should be encouraged (some members already are part of GP section). But adding electromagnetism to the GP name in and of itself signals a preference for the future of the section with respect to other sub-disciplines in GP (e.g. biogeomagnetism, planetary magnetism, rock magnetism, marine magnetism, environmental magnetism) that are small but just as deserving of recognition. The change in name also sets up conflict within AGU that could be counterproductive (e.g. EM is already a solid part of Near Surface Geophysics).

There are a lot of electromagnetic studies presented in this section

There are less scientists contributed to GP than ten years ago, so it's necessary to integrate more relative interdiscipline into our group. For me, I can learn more from reports of EM scientists.

There are many works in this section, which are related to electromagnetism. So I support the name change. there are more important things to worry about

There's no ideal way to change our name, but I'd be ok with GPE.

This is a good idea. Electromagnetic induction is an important aspect of studies of the Earth's electromagnetic environment, and naturally lies close to geomagnetism

This is an long live section, still plenty of people working in paleomagnetism, the numbers of people increased significantly recently in China. Although more and more paleomagnetists attended other sections during the past meetings due to interdisciplinary studies, there is no need to change the GP section name.

This seems to be a good idea both for the general health of GP within AGU and as a home for EM scientists. In terms of skill sets I think this is a good match.

This would move the section closer to my interests

To my opinion, electromagnetics fit applied geophysics better than in the GP session.

We are against it

We have to go for it if this is a demand from the members of this community. On the other hand, detailing the fields covered may exclude others.

We need more inclusivity. Marine EM is increasingly important for industry, and I can see no arguments against the small change to the name. It leaves the representation of the two other components intact.

what is the (approximate) number of scientists working on electromagnetism? No objection against name change if supported by the majority of voters

What is the proposed name change?

when I hear GPE, I think gravitational potential energy; in one sense, EGP would be a progression from very large scale to a smaller scale: space->Earth->Earth materials. On the other hand, it obscures the history of the Section, which really has been led by Geomagnetism and Paleomagnetism. Space & Planetary Magnetism (SPM)?

While geomagnetism and paleomagnetism are fairly specific, the term "electromagnetism" (EM) encompasses a very broad range of phenomena and technologies, spanning a large domain of spatial/temporal ranges and corresponding technologies. The proposed name change may be more encompassing, but would also embrace a corresponding ambiguity of scope, particularly to those practitioners (such as myself) working outside the geophysics community. My own community of interest (defense) address this by distinguishing the frequency domain DC

While GP is not not my primary "home", I am in favor a name change.

While the name change would be inclusive of the electromagnetism community, it would still leave out other large groups, like the rock-magnetic and archeo-magnetic community. None of these groups has felt excluded on the basis of the "GP" affiliation, so unless an adequate all-inclusive name is found I see no point for a name change to GPE.

Would reflect better the study focus of many members

x

Yes, I think being just Geomagnetism and Palaeomagnetism is too narrow nowadays

Membership Survey: Geomagnetism and Paleomagnetism (GP) Section

Please provide us with any other suggestions on how to grow the membership in our section.

Answer Options

Response
Count

135

answered question 135

skipped question 376

Make attractive announcements of posters and talks, proposed in the section

A lot of other sections have obvious research internships for undergraduates students that then builds a future base. For example, there is the IRIS/NSF internship in seismology and NASA related internships in planetary science. Perhaps this section should partner with other organizations to fund a yearly research experience for undergraduates that entices students studying physics, math, electrical engineering or geosciences to pursue geomagnetism/paleomagnetism/EM.

A magnetostratigraphy focus as well possibly. Biostratigraphy and Magnetostratigraphy have long been considered two of the most important tools in the earth sciences

All current members must help by encouraging our students to join AGU and affiliate with GP. Perhaps do a fundraising campaign where the funds raised will cover the costs of student dues for one year.

attempt to draw paleoclimate and paleoenviron. sections (including glaciology and pale oceanography)

Be welcoming not narrow minded.

By the above name

Changing the name is a first step toward growing membership. The EM community within GP includes several young dynamic researchers who consider the GP section home. The objections raised by some within the 'traditional' GP disciplines to expanding the section name are based on a outdated exclusionary mindset. GP is a small section and needs to be more inclusive rather than exclusive if it hopes to have a place within a dynamic and increasingly interdisciplinary AGU.

concerted efforts to grow all solid Earth geophysics sections

Continue to point out the value of the work our members do to the broad spectrum of Earth and Planetary Science.

Continue to sponsor, even emphasize induction, MT methods and their laboratory complements.

Create a Subsurface Imaging section that could be interdisciplinary and encourage joint interpretation of seismic, MT, potential fields. AGU is too organized into outmoded 20th century disciplinary stovepipe S, aside from GP, which is 19th century!

cross-affiliate

Difficult matter to explain my thoughts in a short message.

Earth and planetary magnetism

Elect some officers from field other than rock/paleo magnetism.

Encourage interest in paleomag and rock mag to illuminate Recent geothermal events/effects

Encourage our students to join GP and carry that membership over after graduation; encourage colleagues not members to AGU to join our section.

encourage communication

Exciting, topical overview papers

Expand promotion of the discipline to students.

Find a way to publicize accomplishments and applications of magnetic studies in as many ways as possible.g. in establishing plate tectonics as a new field, in mapping ocean basins, in 'proving' continental drift, in correlating stratigraphic sections, in studying rock fabrics, etc.

Follow the lead of the planetary magnetism and meteoritic magnetism researchers in coming up with more such naturally strong (not aspirational) connections we have with other geophysical disciplines.

Frankly, what can I get from you n what you can do for me....

From the earth and planetary side of industry and academics, there are only so many people that are needed to work in fields associated with magnetism. Has there been any type of survey to see what percentage of those are section members. It would be good to know what a realistic goal would be. It can never be as large as tectonics I am thinking. The only other source of members would be in affiliated organizations in industry or space science. I would say to find out a realistic goal for membership from earth and planetary science and see growth potential and the demographic of missing members. Then the section can focus on methods for the missing demographic. It might require an increase in depth of service or it might be breadth.

Funding and employment opportunities have a significant effect on the number of new individuals entering specific fields. Without increases in funding and employment for GP (or GPE) scientists I would not expect to see significant growth of the membership.

Geodesy probably has a similar problem with member count. Might consider a merger.

Geo-force fields(magnetic electromag, gravity, material movements)

get more students, easier access for students to conferences

give a discount to students, and enlarge the power of propagation

Go the other way and call the section something like "Magnetism" that would include everything from paleo-, geo-, rock-, to electro-magnetism

Going with a shorter, (and at least perceptively) more inclusive section name could benefit membership.

Good question! I don't know. Maybe more joint sessions (e.g. the oceans as a geodynamo; geomagnetism and life / paleomagnetism and the history of life; ...)? My primary section (geodesy) has the same challenge....

Growth in the short term means gaining new members from other sections. Opportunities might include Planetary Science members with interest in magnetism, as well as the SEDI focus group and Tectonophysics

Have a joint luncheon function with one of the other groups to test out the "fit".

Have more visibility and activities besides the annual meeting. In addition, there could be specific scholarships to attend meetings, initiatives to foster international scientific projects/programs, etc.

Having the 'E' added to the name should help bring attention to GPE via new co-sponsored sections at the Fall AGU, with near-surface, mineral and rock physics, as well as SEDI groups.

How about to change the name to: "Earth and Planetary Magnetism (EPM)" That would encompass all possible magnetisms including electromagnetism

I am not aware of any better approach.

I can't imagine that the issue of declining membership rests on nuances over the name of the group. Could the declining membership be due to a reduction in the number of scientists studying geomagnetism? If so, it's not a problem that can be solved on the level of this group. Is there inherent value in having a bigger group? Do EM geophysicists not consider what they do to be part of "geomagnetism"? Do they usually choose membership in other groups? If so, why?

I do not have any suggestions

I do not understand why growth is important. I prefer to have a small but collegial and active focus group (like ours is) over a large, sluggish, and anonymous group. Influence at AGU level probably depends more on the activeness of the focus group's members than on its actual size.

I propose to thoughtfully publicise this in the numerous relevant sections

I recommend that the Division engages in an active strategy to reach out to other communities (seismology, geochemistry, planetary geology) by organizing a series of joint workshops on bridging themes

I would find it interesting to know how many AGU members with GP as primary affiliations have secondary affiliations AND inversely how many AGU members have GP as a secondary affiliation. If we look at session topics, GP more often than not proposes "tool" sessions...electromagnetism, geomagnetism, magnetostratigraphy, environmental magnetism, planetary magnetism, rock magnetism, magnetic anisotropy. Session focusing on a specific scientific problem are quite rare. The result is that other disciplines, are not invited into the GP sphere. This may be one approach to increase the membership of the GP section.

I would include also Rock Physics in the name, such as at EGU

I would suggest more group meetings and events to show that we collaborate outside of lectures.

I'd rather see the focus on quality than on quantity. Our section may be small, but it's played a fundamental role in understanding Earth and planetary processes, something that is well-reflected in the number of fellows and other award recipients in our group. Per capita, GP may have the biggest bang for the buck (it'd be interesting to see some numbers on this). I think a greater challenge is to convince deans and departments heads that there is tremendous value in having GP(E) scientists and infrastructure at their universities. Historically important pmag labs are closing across the US, while they are growing rapidly in Asia and elsewhere. This hints that our section's numbers are likely to grow if we cast a keen eye toward international recruitment.

In addition to a name change, modifying the group activities, topics, etc, to include new, related fields that do not yet have a home may help. It also may be worth looking at whether interest in the field in general, measured by graduation rates (grad and undergrad) is at the same level where it has been historically. Declining membership in the section might be the result of something broader than AGU.

In my opinion, most new memberships are due to cooptation of students by their advisors. Paleomagnetism and rockmagnetism are often seen as tools rather than subdisciplines of earth sciences. A lot of senior scientists using paleomagnetism or rock magnetism as tools are actually working in departments without instrumentation and perhaps their students are tempted to be affiliated to other sections such as tectonophysics, volcanology, climatology, etc...more adapted to the subject of their research. I would advise senior scientists to be more proactive in convincing their student to join us in GP.

In recent years, it's become more and more common to hear (non-magnetism-based) geologists misconstrue or misunderstand the uses of magnetic investigations in a larger context. We tend to be a very close knit group, but maybe more should be done to exhibit our abilities to answer complex questions with which other investigators struggle.

In the short term the best advice is to make sure the people being advertised to see the benefit of attaching themselves to GPE instead of another section.

Include magnetospheric people?

include planetary magnetism (somehow), so that "magnetic people" in planetary science could switch to our focus group as their primary affiliation

Increase and encourage cross disciplinary work, look outside the ordinary to find areas where GPE can be utilized, increase the visibility of GP in media (internet, news, blogs, youtube videos), make GP more tempting option for students etc.

Increased student involvement. We have a number of successful student events, but others could be instituted.

It is a general trouble because more and more specific areas has been formed losing the global focus It is incomprehensible to me that different sessions with similar focus belonging to different sections occur in parallel at the AGU Fall Meeting. Specifically, this concerns the session "Planetary Magnetism and Paleomagnetism" (Section Geomagnetism and Paleomagnetism) and the session "Fluid Dynamics and Magnetohydrodynamics of Planetary Cores" (section Planetary Sciences). In such a case, you need not be surprised that people spread across different sections or migrate to other sections if they expect a more promising perspective.

It may be OK to be a modestly smaller Section. Not all Sections have to be huge. This is not giving up on membership growth, but recognizing that there are some advantages to being smaller and maybe more flexible within the AGU. I think the best way to attract members to the Section is to run excellent sessions and sponsor special workshops, short courses.

It would be beneficial to the field if magnetohydrodynamics were unified in a single section. Right now studies of magnetic dynamos are fragmented among many sections (say, at AGU meetings) and people working on the same problem don't talk to each other enough. It would be nice if GP could coordinate and consolidate these activities and sessions. This would buck the trend of proliferating special interest groups and sessions where people only talk to themselves.

Just advertise at AGU meetings after the change has been accepted. Adverts can also be placed in reputable Earth Science Journals or Geophysical Journals, other than AGU publications.

Keep trying to involve people in both SEDI and Planetary Magnetism. Encourage invited talks from these two disciplines.

magnetic techniques are often seen as a tool rather than a scientific research area in themselves. I think the excitement of that needs to be communicated to get people to see the topic as interesting. But this is beyond just a membership problem!

Make connections with paleoclimate people because of environmental magnetism. Also with Tectonophysics, Ocean Sciences, Planetary Sciences.

Making efforts to amplify members communication.

Many who use rock/environmental magnetic techniques are interdisciplinary scientists who may identify in another primary section. For instance many scientists use rock magnetism to understand sediment diagenesis, paleoclimate, and paleoceanography. Maybe there are others who just haven't thought to add a secondary affiliation? Perhaps outreach to other sections to find additional AGU members who have interests in G and P.

May be including a section related to Geomagnetic effects on other phenomena

Maybe including magnetic fabrics in the section.

More and more research is conducted in integrated teams. More joint activity with Tectonics, Volcanics, and Near-surface Geophysics would help increase membership of the GP Section.

More Chapman Conferences

more introduction of GP to other disciplines of earth science

More joint symposia, especially with Tectonophysics, Seismology and Mineral Physics

More visibility in other sections by joint sections but also advocating for more funding of interdisciplinary research with respect for geomagnetism.

My one suggestion would be to actively recruit geophysics B.S. and M.S. students for PhDs to build not only interest in the subject but also an active research community with a substantial footprint in the scientific frontier. Right now, GP related studentships, research positions, and faculty positions are largely replenished in a passive manner. While the other branches of geophysics have sufficient demand and inherit interest due to highly publicized research and industry relationships, GP is not nearly as well known to the undergraduate community and requires active recruitment of qualified individuals to grow.

na

No idea so far.

no opinion

none

None

None

None

None

none

None

None.

not sure

Not sure...there aren't a lot of new geomagnetists and/or pmag people graduating college, so adding EM is probably a good step

Nothing to add.

NS

Once the electromagnetism is included the membership will grow automatically.

One ide is to link geophysical surveyer.

One needs to know more why the GP membership has decreased over the past few years. Is it due to attrition through retirement or from people changing sections? Also, one needs to know WHY we should grow the section. Big = worse in my opinion. I find science is usually more successful on more focused scales. Why have a room full of people with broadly different interests just for the sake of mass?

organize more interdisciplinary sessions in the meeting

Perhaps attract atmospheric geomagnetists who "look down" from a satellite perspective. Try title "Geomagnetism and EM Induction" or just "Geomagnetism" (as in Chapman & Bartels.)

Perhaps reaching out to unaffiliated AGU members via interesting and high-profile articles on EOS? The field is broad and has multiple applications that could be stressed. Consideration should also be given to the thought that the size of the section accurately reflects the relative interests of the AGU membership as a whole.

Perhaps recruit early career scientists into GP since there are more early career people population-wise than advanced researchers? I imagine lot of young students enter the AGU by listing the affiliation of a broadly-named field they are interested in (Tectonics, Planetary Science, Biogeoscience...I certainly did this when I was starting out) and then don't promptly make the official switch to GP when they start doing research in our field. There are more magnetists out there than seem to actively participate in GP. I think part of the problem is that geomagnetism and paleomagnetism are "tools" to address large problems in other "fields" so a lot of people are more interested in joining the discussions in the "fields", rather than figuratively limiting themselves to discussions with people who use similar tools to address totally different scientific questions. One could draw a comparison between GP members and geochronologists, who lack a specific AGU section, but whose tools make vast contributions to every branch of geoscience.

Perhaps you could grow the student membership by offering more incentives/programs to students?

Planetary magnetism seems to be of great interest to many younger researchers

Planetary Magnetism?

Possibly have an applied (exploration) subsection that focusses more on industry related issues as opposed to straight academic pursuits

promote importance of geomagnetism for neighbouring sections

Promote integration with magnetospheric and ionospheric science.

promotion at the undergrad/grad level

provide some vision about the future directions of paleomagnetism

Reach out to students and early career scientists on smaller meetings? If they would go to AGU Spring or Fall they know of GP as a positive bunch of people.

see 7

solicitation in secondary and high schools, selection of specific mysteries that are at the heart of GP, like the origin of magnetic reversals, illustrating that the movie Core is what GP session is all about.

Strong research in the GP field involving students.

students

Students are the key factor to grow the membership in our section. When i look at my students, they are not interested in the membership. We have to do something to activate their interest, such as publishing discounts for AGU journals.

Support creationists by actively supporting their papers and giving them legitimate status.

The Executive Committee can establish Divisions within GP (see Article 6 of the Bylaws), with the specific task of establishing thematic AGU sessions (and potentially other activities) that will grow the membership.

One such division could be EM, but other sub-disciplines should be included.

The exploration geophysics community provide some growth.

The focus needs to be on growing the community as a whole instead of attempting to claim members from other sections.

The GP section must become more active in publicizing the use and need for information that we can offer to the earth science community as a whole. It is only with a large base of academic research that we will see growth.

The inclusion of electromagnetism should help and particularly solar magnetism, solar flares and their electromagnetic impact on earth.

The marine EM community (MARELEC) has been shrinking for some years now. Perhaps improved outreach there would be appropriate? In-situ low frequency EM, by it's nature, is very background limited. Improved collaboration with the space/solar physics communities could provide _very_ significant synergy helpful to both areas.

The membership depends on the currents in broader science as a whole - for myself, I moved over to PP because that area is where the bulk of my work is these days. I'm not sure how AGU GP can change the currents. GP's appeal is that it is a smaller, coherent, friendly and supportive group already.

The membership is linked with the number of motivated graduate students, postdoc and early career researchers in the field. Clearly that would be the group to seduce. Give more research grants for student and early career researchers.

The membership reflects the current balance of trends in geosciences. The only way to grow is to move the limits of the section, as you do. But if we move to much (for instance, to include all potential fields), we will also loose in specificity. I tend to believe that small is beautiful... although too small may lead to extinction.

To encourage our students and other co-workers to become members of AGU!!

To reduce registration fees for renters

Unfortunately there seems to be a drop in interest and funding in the UK presently for geomag - perhaps more can be done to involve the Earth-ward fringes of the space weather community who are currently growing. There is overlap, particularly with EM topics if those are to be incorporated.

Watch for the publication of papers by emerging young scientists in field that are in GP or should be included and recruit the authors to components of the GP structure.

We are publishing some material about Geomagnetism and its applications and advising about that affiliation.

We have to organize more sections in Magnetism together with gravity (potential field) In Marine and Land.

While I understand the importance of a more strongly represented section, I feel that over the ten years I've been a member the GP community has already lost a large part of the tight-knit community-feel that appealed to me so much in the beginning. I don't know why that would be (increased competition? The formation of certain "power groups" within the section?), but I am an advocate for keeping the section focussed.

Why does AGU insist on a having certain size for sections rather than having a certain focus? Magnetism includes one of the primary forces and the study of the magnetism of Earth, planets, and stars is a focus area worthy of having its own section in AGU.

work on student exchange programs. We must look at the next generations and we should do it across and beyond political boundaries

work to get more funding for students in general and work to promote timely and topical research in contrast to "long in the tooth" old problems without solutions in the extant tool box and techniques.

x

You may try to increase at least the secondary membership by paying more attention to the external geomagnetic field which is closely linked with several areas under Space Physics and Aeronomy.

You may want to include GP of planetary objects

Young people! We need to get the message out to students to choose GP when they become AGU members. It is not always obvious to them what their affiliation should be.