

# History of the Asian and Oceanian Photochemistry Association (APA)

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History of the Asian and Oceanian Photochemistry Association (APA) as the largest photochemistry association in the world, which was established in 2002 and actually was born at the kick-off meeting in 2001, and the pre-history are briefly reviewed.

## 1. Foundation of the Asian and Oceanian Photochemistry Association (APA)

15 The Asian and Oceanian Photochemistry Association (APA: <http://www.asianphotochem.com/>) has been established in 2002 on the basis of regional photochemistry associations and photochemists assembly in Australia, China, Hong Kong, India, Japan, Korea, and Taiwan to promote and encourage the international development of photochemistry and related subjects with special reference to Asian and 20 Oceania countries. In particular, the aims to be pursued by the Association are:

1. Promotion of co-operation between the Association members in universities, research institutions and industries through international contacts and exchange of scientists.
2. Co-ordination of photochemical meetings in Asia and Oceania, including the 25 Asian Photochemistry Conference.
3. Promotion of photochemical literature.

Membership of the Association is opened to 1) the national and regional societies (Society membership): all members who belong to each society are assigned as individuals of Society membership. If the national or regional society does not exist, a 30 group consisting of more than ten persons is referred as a Society membership, or 2) persons who are willing to accomplish the objectives as described above (Personal membership): an individual who does not belong to a Society membership. According to the definition of membership in plural categories, a description of the affiliation of each scientist has been subjected not to the country but to the city.



35 Dr. Hiroshi Masuhara  
The Founding President of  
the APA (2002-2004)



Dr. Jai Pal Mittal  
The 2<sup>nd</sup> President of  
the APA (2005-2007)



Dr. Haruo Inoue  
The 3<sup>rd</sup> President of  
the APA (2008-2010)

**The Asian and Oceanian  
Photochemistry Association  
(APA)**



**Number of members:** 1126 as of March, 2012.

**Society members:**

Australia and New Zealand (12), China (80), Hong Kong (16), India (57), Japan (700), Korea (200), Singapore (10), Taiwan (51) as of March 2012.

**Executive members of the APA (2011-2012)**

**Executive committee**

**President**

Minjoong Yoon  
Molecular/Nano Photochemistry & Photonics Lab  
Department of Chemistry  
Chungnam National University  
Yuseong, Daejeon  
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The constitution of the APA is added in the appendix.

## 55 2. Birth of the APA

A year before the establishment, the Asian and Oceanian Photochemistry Association (APA) was actually born in 2001 at a kick-off meeting at Kanazawa, Japan, which was held during the Asian Symposium as one of the international program in the annual meeting of the Japanese Photochemistry Association (JPA) in early September. The kick-off meeting was co-organized by Dr. Hiroshi Masuhara as the President of the JPA and Dr. Keitaro Yoshihara as the organizer of the JPA meeting. Key members from Australia (K. Ghiggino), China (C.H. Tung), Hong Kong (V.W.W. Yam), India (S. Das), Japan (H. Inoue, O. Ito, K. Mizuno, H. Masuhara, K. Obi, K. Shibuya, K. Tokumaru, K. Tsujimoto, K. Yoshihara) and Korea (S. Shim, M. Yoon) got together at the meeting. Upon strong

65 leadership of each member and their concrete agreement on a conceptual discussion, a  
 constitution was drafted among the members. Dr. Masuhara was appointed to be an  
 interim President of the APA among the members. A year later after the kick-off meeting  
 at Kanazawa, the Asian and Oceanian Photochemistry Association (APA) officially  
 started in 2002, when the 3<sup>rd</sup> Asian Photochemistry Conference (APC) was held during  
 70 6<sup>th</sup>-11<sup>th</sup>, January at Mumbai, India, organized by Dr. Jai Pal Mittal. In the general  
 assembly of the APC, the foundation of the Asian and Oceanian Photochemistry  
 Association was formally decided according to the steady, vivid, and enthusiastic stream  
 of motivation among most scientists of Asia and Oceania area in the field of  
 photochemistry. Now the APA has, thus, ten years history and the number of the  
 75 members is more than 1100 as of 30<sup>th</sup> March 2012 as the largest photochemistry  
 association in the world. It has now eight Society members such as Australia and New  
 Zealand, China, Hong-Kong, India, Japan, Korea, Singapore, and Taiwan.

### 3. Pre-history of the APA

The birth of the APA has been of course a necessary conclusion of the scientific stream  
 80 of the activity in Asian and Oceanian area in the past several decades. The pre-history  
 had started more than 40 years ago, when the European Photochemistry Association  
 (EPA: <http://www.photochemistry.eu/>) and the Inter-American Photochemical  
 Association (I-APS: <http://www.chemistry.mcmaster.ca/~iaps/>) had been established.

#### 85 3.1 Regional Photochemistry Associations

In resonance with the movement of forming the photochemistry association in Europe  
 and America, scientists in the field of photochemistry in Japan were strongly prompted to  
 have also a photochemical society in Asia/Japan as the counterpart of those in Europe  
 and America. In 1976 Dr. Toshio Mukai, a professor at Tohoku University, proposed his  
 90 idea with much enthusiasm in the general assembly of the Japanese Symposium on  
 Photochemistry, which has been held annually, to found the  
 Japanese Photochemistry Association at first prior to a starting  
 an Association in Asia and Oceania area. His proposal was well  
 accepted and fully agreed among the Japanese scientists in the  
 95 field of photochemistry. The Japanese Photochemistry  
 Association (JPA) as the first photochemistry association in  
 Asia, thus, formally started in the next year 1977. Dr. Ikuzo  
 Tanaka, a professor at Tokyo institute of Technology, was  
 elected as the Founding President and the Vice President was  
 100 Dr. T. Mukai. From the beginning of the JPA, many of the  
 core members, especially the successive Presidents of the JPA  
 such as Drs. Tanaka, Sakurai, Honda, Mukai, Matsuura, Baba,  
 Tokumaru, Maruyama, and Fujishima have been expecting to  
 start an Asian and Oceanian Photochemistry Association to  
 promote a scientific activity in the area with strong cooperation  
 with many active scientific leaders in the field of  
 105 photochemistry in Asia and Oceania such as Dr. S. C. Shim and  
 Dr. M. Yoon in Korea, Dr. C. H. Tung in China, Dr. J.P. Mittal and  
 Dr. S. Das in India, Dr. V.W.W. Yam in Hong-Kong, and  
 110 Dr. K. Ghiggino in Australia, *et.al*. It should be noted here that  
 a year before the kick-off meeting in 2001, Dr. Hideo Tomioka,  
 a professor of chemistry at Mie University had visited Asian  
 countries to explore the possibility of starting the  
 photochemistry association in Asia as an informal JPA  
 115 ambassador to each region. Subsequently other regional  
 photochemical associations have been established in India  
 (1985), Korea (1993), Taiwan, Hong-Kong, and Australia and



Dr. Ikuzo Tanaka  
 The Founding President  
 of the JPA (1977-79)



Dr. Toshio Mukai  
 The 3<sup>rd</sup> President of  
 the JPA (1983-85)

New Zealand, Singapore, in succession.

### 120 3.2 Conferences and meetings

Along with the movements before the birth of the APA, many series of conferences on photochemistry had been held since late 1980's. One of the typical examples is the Japan-Sino Bi-national Symposium on Photochemistry. It had started at Tokyo in 1988 as a triennial bilateral symposium by a leadership of Dr. K. Honda and Dr. T. Matsuura  
 125 as the President of the JPA and Dr. Z. Zhao at the Institute of Photographic Science in China. The symposium had been held in alteration among Japan and China. Another examples is the Symposium on Intelligent Electrophotonic Materials and Molecular Electronics (SIEMME), which has been held annually in China since 1994 under the strong leadership of Dr. A. Fujishima at University of Tokyo and Z. Liu at Beijing  
 130 University. These symposiums have actually been stimulating the scientific activities in photochemistry and photon-related science in Asian area. Many senior and young scientists have been involved. A forming an association/society on photochemistry in Asia and Oceania had thus been becoming a naturally inevitable movement.

### 135 3.3 The Asian Photochemistry Conference (APC)

In 1996 a historical scientific meeting was firstly organized by Dr. Hiroyuki Hiraoka at Hong-Kong. The meeting was vice-chaired by Dr. Vivian W.W. Yam and started as the 1<sup>st</sup> Asian Photochemistry Conference (APC). The APC has been succeeded by strong support of leaders in photochemistry such as Drs. A. Fujishima, H. Shizuka, H. Masuhara,  
 140 and O. Ito. The successive APC has been held for 5 times so far, at Daejeon, Korea (1999), Mumbai, India (2002), Taipei (2005), Beijing, China (2008), and Wellington, New Zealand (2010). The 7th APC shall be held at Osaka this year (2012). The APC has been an international conference for the experts working in the fields of photochemistry and related areas all over the world.

145 As described above, the APA was formally established at the 3<sup>rd</sup> APC in Mumbai, India, and the APC became an official international symposium of the APA. The history of the APC is summarized in Table.

150 **Table** History of the Asian and Oceanian Photochemistry Association (APA) including pre-history and other movements surrounding the APA.

Year	The Asian and Oceanian Photochemistry Association (APA)	The Asian Photochemistry Conference (APC)	Other movements surrounding the APA
Before 1977			The European Photochemistry Association (EPA) The Inter-American Photochemical Society (I-APS)
1977			The Japanese Photochemistry Association (JPA)
1984			Indian Society for Radiation and Photochemical

			Sciences (ISRAPS)
1988			The 1 <sup>st</sup> Japan-Sino Binational Symposium on Photochemistry
1993			Korean Society of Photoscience (KSP)
1994			The 1 <sup>st</sup> Symposium on Intelligent Electrophotonic Materials and Molecular Electronics (SIEMME)
1996		The 1 <sup>st</sup> APC at Hong Kong (Organized by H. Hiraoka and vice-chaired by V.W.W. Yam)	
1999		The 2 <sup>nd</sup> APC at Daejeon, Korea (Organized by S.C. Shim)	
2000			The launch of the <i>Journal of Photochemistry and Photobiology, C, Photochemistry Reviews</i> as the official journal of the JPA
2001	Kick-Off meeting of the APA at Kanazawa, Japan (Organized by H. Masuhara and K. Yoshihara) The interim President: H. Masuhara		
2002	Establishment of the APA in the 3 <sup>rd</sup> APC at Mumbai, India <b>The 1<sup>st</sup> term: 2002-2004</b> President: H. Masuhara Vice President: J. P. Mittal, S.C. Shim (-April 2002), M. Yoon (April 2002-2004) Secretary Treasurer: H. Inoue	The 3 <sup>rd</sup> APC at Mumbai, India (Organized by J.P. Mittal)	The launch of <i>Photochemical &amp; Photobiological Sciences</i> as the official journal of the European Photochemistry Association (EPA), the European Society for Photobiology (ESP), the Asia and Oceania Society for Photobiology (AOSP) and the Korean Society

			of Photoscience (KSP)
2003			The XXI International Conference on Photochemistry at Nara, Japan, in 2003 (ICP-2003)
2004			The XX IUPAC Symposium on Photochemistry at Kyoto, Japan (Photo IUPAC 2004)  The 1 <sup>st</sup> Korea-Japan Symposium on Frontier Photoscience (KJFP)
2005	<b>The 2<sup>nd</sup> term: 2005-2007</b> President: J.P. Mittal Vice President: C.H. Tung, M. Yoon Secretary Treasurer: K. Mizuno	The 4 <sup>th</sup> APC at Taipei (Organized by S.H. Lin and C.C. Liao)	The XXII International Conference on Photochemistry at Cairns, Australia (ICP-2005)  Pacifichem 2005 at Hawaii
2006			The 30 <sup>th</sup> anniversary of the JPA
2008	<b>The 3<sup>rd</sup> term: 2008-2010</b> President: H. Inoue Vice President: K. Ghiggino, M. Yoon Secretary Treasurer: H. Miyasaka	The 5 <sup>th</sup> APC at Beijing, China (Organized by C.H. Tung)	
2009			The Asian Seminar at Kawasaki, Japan  The 1 <sup>st</sup> International Forum on Photoenergy Future (IFPF)
2010		The 6 <sup>th</sup> APC at Wellington, New Zealand (Organized by K. Ghiggino and G. Smith)	Pacifichem 2010 at Hawaii
2011	<b>The 4<sup>th</sup> term: 2011-2012</b> President: M. Yoon Vice President: H. Fukumura, K. Ghiggino Secretary Treasurer:		The XXV International Conference on Photochemistry at Beijing, China (ICP-2011)



	H. Miyasaka		
2012		The 7 <sup>th</sup> APC at Osaka, Japan (Organized by T. Majima and N. Kitamura)	

#### 4. Activities of the APA and the regional societies in Asia and Oceania

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Since its formal foundation in 2002, the APA has been devoting its activities to stimulating and promoting co-operation between the Association members, co-ordination of photochemical meetings in Asia and Oceania, and scientific publications. Each regional society in Asia and Oceania has also developed much activities as follows.

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##### 4.1 The Asian Photochemistry Conference (APC)

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As described above (3.3), the APA was formally established at the 3<sup>rd</sup> APC in Mumbai, India, and the APC became an official international symposium of the APA. Initially the APC had been held triennially since the 1<sup>st</sup> APC in Hong Kong (1996) to the 5<sup>th</sup> one in Beijing (2008), it has grown into a biennial one at the 6<sup>th</sup> APC in Wellington (2010) and the 7<sup>th</sup> APC will be held at Osaka (November, 2012).

##### 4.2 Awards system

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The APA has been recognizing distinguished scientists in Asia and Oceania by honoring with four kinds of award, prize, and lectureship award, respectively.

##### 1) The APA award

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The APA recognized distinguished scientists for his/her scientific contribution and achievement. The laureates of the APA award are as follows.

Year	Laureate
2005	Akira Fujishima (Tokyo) Yuan-Tseh Lee (Taipei) Jai Pal Mittal (Mumbai)
2008	Kankan Bhattacharyya (Kolkata) Isao Saito (Kyoto) Chen-Ho Tung (Beijing)
2010	Yuan-Pern Lee (Hsinchu) Hiroshi Masuhara (Nara)

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##### 2) The award for the distinguished contribution to the APA

The APA recognizes scientists for his/her distinguished contribution to the APA. The laureates of the award are as follows.

Year	Laureate
2008	Haruo Shizuka (Kiryu) Minjoong Yoon (Daejeon)

	Keitaro Yoshihara (Nagoya)
2010	Jai Pal Mittal (Mumbai) Katsumi Tokumaru (Tsukuba)

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### 3) The APA Prize for young scientists

The APA recognizes scientists younger than 40 years old for his/her scientific activities. The prize winners are as follows.

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Year	Laureate
2005	Hirendra Nath Ghosh (Mumbai) Kohji Hatanaka (Sendai) Sung Ho Jin (Pusan) Kenneth Kam-Wing Lo (Hong Kong) Shinsuke Takagi (Tokyo) Jye-Shane Yang (Taipei)
2008	Yasuyuki Araki (Sendai) Yasuaki Einaga (Tokyo) Jim Jr-Min Lin (Taipei) Hajime Maeda (Sakai) Kei Ohkubo (Osaka) Xuesong Wang (Beijing)
2010	Vasudevan Pillai Biju (Takamatsu) Seong-Ju Hwang (Seoul) Seiya Kobatake (Osaka) Jyotirmayee Mohanty (Mumbai) Man-Chung Wong (Hong Kong) Tomoyuki Yatsuhashi (Osaka)
2011	Katsuyoshi Ikeda (Sapporo) Syoji Ito (Osaka) Cheng Yang (Osaka)

### 195 4) Masuhara Lectureship Award

In honor of Dr. Hiroshi Masuhara, the Founding President of the APA, the APA will start “Masuhara Lectureship Award” at the 7<sup>th</sup> APC (Osaka, November 2012). A distinguished scientists shall be awarded to deliver a lecture in the APC.

### 200 4.3 Scientific publications

In the stream of firm promotion of scientific activities on photochemistry and photon-related science in Asia and Oceania, two regional societies, the Japanese

Photochemistry Association (JPA) and the Korean Society of Photoscience (KSP), have been contributing publishing official journals of their association/society.

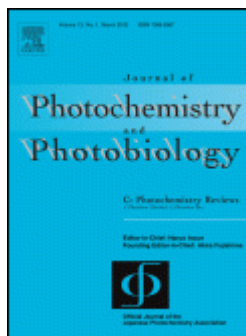
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1) *The Journal of Photochemistry and Photobiology, C, Photochemistry Reviews*

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The JPA had launched a review journal on photochemistry, *Photochemistry Reviews*, as the official journal of the JPA in 2001 from Elsevier, just before the birth of the APA. The founding Editor-in-Chief was Dr. Akira Fujisihima and the corresponding associate editor was Dr. Haruo Inoue. The impact factor in 2011 is 10.810. (<http://www.journals.elsevier.com/journal-of-photochemistry-and-photobiology-c-photochemistry-reviews/>)

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2) *Photochemical & Photobiological Sciences*

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The Korean Society of Photoscience (KSP) had joined the publication of *Photochemical & Photobiological Sciences* from the Royal Society of Chemistry. It was launched in 2002 as the official journal each society/association of the European Photochemistry Association (EPA), the European Society for Photobiology (ESP), the Asia and Oceania Society for Photobiology (AOSP) and the Korean Society of Photoscience (KSP). The impact factor in 2011 is 2.378. (<http://pubs.rsc.org/en/journals/journalissues/pp>)

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#### 4.4 Laureates of the Porter Medal

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The Porter Medal, named for the late George Porter FRS, Nobel Laureate, is awarded biennially to the scientist who in the opinion of the European Photochemistry Association (EPA), the Inter-American Photochemistry Society (I-APS), and the Asian and Oceanian Photochemistry Association (APA), has contributed most to the science of photochemistry with particular emphasis on more physical aspects, reflecting George Porter's own interests. Three distinguished scientists, Dr. Ken-ichi Honda, Dr. Noboru Mataga, and Dr. Hiroshi Masuhara received the Porter Medal so far from Asia and Oceania area.

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Dr. Ken-ichi Honda  
Laureate of Porter Medal  
in 1992.

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Dr. Noboru Mataga  
Laureate of Porter Medal  
in 1996.



Dr. Hiroshi Masuhara  
Laureate of Porter Medal  
in 2006.

#### 4.5 International symposium and conferences

250 After the birth of the APA, many international conferences and meetings on  
photochemistry have come to be held pretty frequently in Asia and Oceania area. The  
XXI International Conference on Photochemistry was co-organized by Dr. Kin-ichi  
Obi and Dr. Hiroshi Masuhara at Nara, Japan, in 2003 (ICP-2003), the XXII one  
255 (ICP-2005) was organized by Dr. Kenneth Ghiggino at Cairns, Australia, and the  
XXV one (ICP-2011) was held at Beijing, China, by Dr. Chen-Ho Tung as the  
organizer. Successively the XX IUPAC Symposium on Photochemistry (Photo  
IUPAC 2004) was organized by Dr. Masahiro Irie at Kyoto, Japan, in 2004, which  
was held for the first time in Asia. the Korea-Japan Symposium on Frontier  
260 Photoscience has been organized by Dr. Minjoong. Yoon at Chungnam National  
University and Dr. Tetsuro. Majima at Osaka University since 2004 as an annual  
bilateral symposium between Korea and Japan. Drs. Sang Ook Kang and Chong Jin  
Pac at Korea University also organized the International Forum on Photoenergy  
Future (IFPF) since 2009. In the same year, Dr. Akira Fujishima, Dr. Haruo Inoue,  
265 and Dr. Minjoong Yoon co-organized the Asian Seminar with Dr. Katsuhiko Takagi  
as the secretary general in Kawasaki, Japan, under auspices of Japan Society of  
Promotion of Science (JSPS). In addition to those international conferences, in the  
Pachifichem 2005 and 2010 many symposiums have been organized by scientific  
leaders in Asia and Oceania area as well as other active symposiums/conferences.

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## Appendix

Revised on August 8, 2011

# 275 Constitution of the Asian and Oceanian Photochemistry Association

## 1. Name

The Asian and Oceanian Photochemistry Association (APA) shall be hereafter referred to  
280 as "the Association".

## 2. Objectives

- a. The Association has been established to promote and encourage the international  
development of photochemistry and related subjects with special reference to Asian  
285 and Oceanian countries.
- b. In particular, the aims to be pursued by the Association are:
  - i. Promotion of co-operation between the Association members in universities,  
research institution and industries through international contacts and exchange of  
scientists.
  - 290 ii. Co-ordination of photochemical meetings in Asia and Oceania, including the  
Asian Photochemistry Conference.
  - iii. Promotion of photochemical literature.

## 3. Membership

295 Membership of the Association shall be opened to 1) the national and regional  
societies, or 2) persons who are willing to accomplish the objectives described in Article  
2.

- 300 a. Society membership: All members who belong to each society are assigned as individuals of Society membership. If the national or regional society does not exist, a group consisting of more than ten persons is referred as a society member.
- b. Personal membership: An individual who does not belong to a Society membership.

#### 4. Council and Executives

- 305 a. The Association shall be administered by a Council consisting of Councillors from each member society. The number of Councillors from a society shall be in accordance with the society categories classified by the numbers of members. Category I (11-50), II (51-100), III (101-300), and IV (301 and more) have 1, 2, 3, and 4 numbers of Councillors, respectively.
- 310 The society shall appoint the Councillors representing each society. If a society does not exist, the Councillor shall be co-opted from among the Association members in that country.
- b. Executive Committee consists of a President, 2 Vice-Presidents, and Secretary-Treasurer.
- 315 c. The Executive members will be elected by Councillors at a Meeting of the Council. Executive members shall hold office for one two-year term. No member of the Executive shall serve more than two terms. The President shall serve for one two-year term and shall not be eligible for re-election as President.
- d. The Council and Executive shall meet at least once in every two years.
- 320 e. If the Councillor for a particular society is unable to attend a meeting of the Council, an alternate may be appointed by the society or co-opted from among the Association members of that society.

#### 5. Finances

- 325 The finances of the Association shall consist of the following.
- a. Society membership fees,
- b. Personal membership fees,
- c. Donations received by the Association with the permission of the Executive Committee.

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The Council will determine the fees for (a) and (b) periodically. In the event of dissolution of the Association, its funds shall be dispersed among the member in accordance with their accumulated number of unit contributions.

#### 335 6. Changes to the Constitution

Changes to the Constitution shall be communicated in writing to the President at least six months prior to a Council meeting.

340 A change to the Constitution shall require a two-thirds majority vote of all those eligible to vote at Council meetings. Voting may be by mail or proxy.

#### Information on the membership fee.

345 The membership fee is 3 US\$ / member / year.

For the society member, APA will send an invoice of the membership fee to the society. The local society will pay for the membership fee corresponding to the number of the society members to APA.

350 For the local group member, APA will send an invoice of the membership fee to the representative member of the local group. The representative member will pay for the membership fee corresponding to the number of the local group members to APA.

For the personal member, APA will send an invoice of the membership fee to each member. The member will pay for the membership fee to APA.

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