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2 **My turn to thank many around the World: Past and present:**
3 **Primarily for photosynthesis research in my life**
4

5 **Govindjee**

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8 (E-mail: gov@illinois.edu; url: <http://www.life.illinois.edu/govindjee/>)
9

10 **January 1, 2019**

11 *“Only when photosynthesis was invented, about two and a half billion years ago, did oxygen*
12 *become part of earth’s air and, because oxygen is a dangerous, reactive chemical, this poisoning*
13 *of the planet wiped out many creatures and forced others into hiding. These oxygen-haters live to*
14 *this day in lake bottoms, in swamps, and deep in the soil, eking out an existence in oxygen-*
15 *free environments. Other creatures adapted to the new pollutant and, using an elegant sidestepping*
16 *maneuver, turned the toxic oxygen to their advantage. Thus was born respiration using oxygen, an*
17 *energy-liberating biochemical trick that we have inherited. Our lives therefore depend on an*
18 *ancient form of pollution.” – David George Haskell (2012) The Forest Unseen: A Year’s Watch*
19 *in Nature. Viking, pp 26–27.*

20
21 **In this Letter, I honor and thank all with whom I have interacted with in my research career**
22 **that began in the Department of Botany at Allahabad University, Allahabad, U.P, India, in**
23 **1954, and continued for more than 40 years, starting in 1956, at the University of Illinois at**
24 **Urbana- Champaign, Illinois, USA, until I retired in 1999. I was fascinated by the primary**
25 **events from the time light is absorbed until water is oxidized and reducing power is made;**
26 **we (i.e., those listed here) measured some of the key reactions and had great fun doing it.**
27 **However, during the last 20 years of my Emeritus life, the focus has changed to recognize the**
28 **players (big and small) in the field of photosynthesis; to help younger scientists; and to**
29 **explore how we can use photosynthesis for the benefit of us all. The current *Letter* is merely**
30 **to say “Thank You” to everyone I have published with in my academic life.**

31 **I am highly thankful to Robert (Bob) Blankenship, Thomas (Tom) Sharkey and**
32 **George C. Papageorgiou for reading this letter before its publication on-line. I take full**
33 **responsibility for all the left-over errors.**
34 -----
35

36 **Key words:** Photosynthesis; Mentors and Professors; Graduate Students; Leaders; Collaboration;
37 Team Work
38

39 **Prolog**

40 As I look back on (and in) my research life, starting in late 1954, until today , I realize immediately
41 that I have been very lucky to have had wonderful professors and mentors and many others who
42 have shaped my life in exciting research directions (Govindjee, 2019); I have decided to list these
43 wonderful persons here in 5 sections (each section being alphabetically arranged): (A) professors
44 and mentors; (B) Other leaders in the field who have influenced me; (C) My former graduate
45 students as well as those of others who were associated with me in some manner; (D) Senior

46 scientists, visiting professors and post doc associates, who worked with me, or came to work with
47 me at the University of Illinois at Urbana-Champaign, UIUC; and (E) Other co-authors or co-
48 editors (including professors & senior scientists, but excluding those listed above in sections A-
49 D). Unfortunately, for all of us, many are no more* with us; their names are bolded and are in
50 italics. The list also includes many whom I never personally met, but they collaborated via others
51 I knew (or know), and are as important to me as the others. With help from many, I have provided
52 the full names of all except just a couple that we have not found yet. Further, I have added
53 parenthetically the years I have coauthored a paper, a review, a tribute or a news report.

54 I invite you all to visit my web page at: <http://www.life.illinois.edu/govindjee/>.
55 Information on publications (from where the list below was prepared) is at :
56 http://www.life.illinois.edu/govindjee/recent_papers.html and at :
57 <http://www.life.illinois.edu/govindjee/pubschron.html>. (A large number of publications can be
58 downloaded from these two sites.)

59 Since the following list may be incomplete, I request the readers to send an e-mail to me
60 (gov@illinois.edu) about any errors they find.

61

62 **A. Professors & mentors**

63

64 **Robert Emerson***, University of Illinois at Urbana-Champaign (UIUC)
65 (Rabinowitch, 1961; Govindjee, 2004; Govindjee, 2018)

66 **Eugene Rabinowitch***, UIUC (1960;1961; then as a colleague (joint advisor): 1965-- 1969;
67 1973) (Bannister, 1972; Govindjee and G.C. Papageorgiou, in preparation, 2019)

68 **Shri Ranjan***, University of Allahabad (1955)
69 (Laloraya, 1970)

70 **Jan Bartholomeus Thomas***, Visiting Professor from the State University, Utrecht (1960; 1961)
71 (van Ginkel and Goedheer, 1991)

72

73 **B. My favorite leaders in the field**

74

75 **William (Bill) Arnold***, Oak-Ridge, Tennessee (1983)
76 (Choules and Govindjee, 2004; Govindjee and Srivastava, 2004)

77 **Louis (Lou) N.M. Duysens***, Biophysics, University of Leiden, Leiden (1976)
78 (Govindjee and Pulles, 2016)

79 **C. Stacy French***, Carnegie Institution of Washington at Stanford
80 (Govindjee and Fork , 2006)

81 **Herbert (Herb) S. Gutowsky***, School of Chemical Sciences, UIUC (1976; 1978; 1981; 1983;
82 1984; 1987; 1988) (Jonas and Slichter, 2006)

83 **Martin D. Kamen***, University of California at San Diego (1969)
84 (Govindjee and Blankenship, 2018)

85 **Bessel Kok***, Research Institute of Advanced Studies (RIAS), Martin Marietta Labs, Baltimore
86 (Myers, 1987)

87 **Gregorio Weber***, when he was at UIUC, and had taught me “All I wanted to know about
88 Fluorescence, but was afraid to ask” (Jameson, 1998)

89

90 **C. Former graduate students and a few others**

91
92 (For details, see: <http://www.life.illinois.edu/govindjee/g/GraduateStudents.html>)
93 (Year of PhD, and years of published papers, are included; below, I have used the generic term of
94 Plant Biology[#] for degrees that were either in “Botany” or in “Plant Physiology” or in “Cell and
95 Molecular Biology” area, or program)
96
97 Maarib D. L. Bazzaz (formerly Bakri) (PhD, 1972, Plant Biology[#]; 1967; 1973;1974)
98 Glenn W. Bedell (PhD, 1972, Plant Biology;1966; 1973)
99 Danny Blubaugh (PhD, 1987, Plant Biology;1984—1986;1988;1989)
100 Jiancheng Cao (PhD, 1992, Plant Biology; 1988; 1990 --1993)
101 Carl N. Cederstrand (PhD, 1965, Biophysics; with Eugene Rabinowitch;
102 1960;1961;1963;1966;1967)
103 **Fredrick (Fred) Y. Cho*** (PhD, 1969, Biophysics; 1966; 1970) (Govindjee et al., 2017)
104 Raymond (Ray) Chollet (PhD, 1972, Plant Biology; with Dominick Paolillo and William Ogren)
105 Roger Chylla (PhD, 1990, Biophysics; with John Whitmarsh)
106 William (Bill) Coleman (PhD, 1987, Plant Biology; 1984; 1985;1987;1988;1990;1993)
107 Julian J. Eaton-Rye (PhD, 1987, Plant Biology; 1984—1988; 2012)
108 Fatima El-Shintinawy (Plant Biology; PhD in Egypt; 1990)
109 James (Jim) Fenton (Biophysics; 1979; 1980;1987)
110 Oliver (Olli) Holub (Biophysics; PhD work under Robert Clegg; 2000; 2003;2007)
111 Paul A. Jursinic (PhD, 1977, Biophysics; 1972; 1976—1979;1982)
112 Rita Khanna (PhD, 1980, Plant Biology; 1977—1981; 1983; 2018)
113 Anne Krey (MS, 1966, Biophysics; 1966)
114 Ted Mar (PhD, 1971, Biophysics; 1969; 1971;1972;1974)
115 **Prasanna K. Mohanty*** (PhD, 1972, Plant Biology; 1970--1975)
116 (Tiwari et al., 2014; Papageorgiou, 2014; Naithani and Govindjee, 2018)
117 John C. Munday (PhD, 1968, Biophysics; 1967; 1969;1970; 2017)
118 George C. Papageorgiou (PhD, 1968, Biophysics; 1967—1969;1971;1973;1998;1999, 2004;
119 2007;2009; 2011;2012; 2014; 2016--2018)
120 Ralph Schooley (Biophysics; 1976)
121 Hyunsuk Shim (PhD, 1992, Biophysics; with Peter Debrunner; 1990)
122 Paul Spilotro (Plant Biology; 1998; 2002; later MD from George’s University, 2004)
123 Alan (Al) J. Stemler (PhD, 1974, Plant Biology; 1973 --1975)
124 David (Dave) VanDerMeulen (PhD, 1977, Biophysics; 1973--1977)
125 Willem (Wim) F. J. Vermaas (1981;1982; 1991; Biology & Agriculture DSc in 1984,
126 from The Netherlands)
127 Daniel Wong (PhD, 1979, Biophysics; 1976 --1981)
128 **Thomas (Tom) J. *Wydrzynski** (PhD, 1977, Plant Biology; 1974--1980)
129 (Conlan et al., 2018; Govindjee et al., 2018)
130 Jin Xiong (PhD, 1996, Plant Biology; 1992; 1995 --1998)
131 Chun-He Xu (PhD, 1992, Biophysics; 1988—1992; 1995; 1997--2001)
132 Louisa Yang (MS, 1965, Plant Biology; 1966)
133 Barbara A. Zilinskas (PhD, 1975, Plant Biology; 1972 –1976; 1987; 2018)

134
135 **D. Senior scientists/ visiting profs/ post doc associates (who worked or came**
136 **to work at UIUC)**

137
138 Patrick (Pat) Breen (active participant in research of the group; provided a leadership role)
139 *Jean-Marie Briantais** (1970; 1972; 1977;1979)
140 (de Kouchkovsky and Cerovic, 2005)
141 Christa Critchley (1982--1984)
142 Mrinmoyee Das (1967; 1975; jointly with Eugene Rabinowitch)
143 Ralphreed (Ralph) Ahad oglu Gasanov (1974; 1979)
144 *Ashish K. Ghosh** (1966; jointly with Eugene Rabinowitch):
145 see an article by Ghosh (2004)
146 Adam Gilmore (1995; 1996; 1998--2000)
147 *Elizabeth (Liz) Gross** (1975)
148 < <http://www.bio.net/mm/photosyn/2007-October/001914.html>>
149 Takeshi Kambara (1985; 1986)
150 Ashok Kumar (active participant in research of the group)
151 *Shmuel Malkin** (1980) (Herbert et al., 2018)
152 Ismael Moya (1977)
153 Teruo Ogawa (1982)
154 Barbara Prezelin (1979)
155 G. Sarojini (1981)
156 Manfredo J. Seuffereleld (2001;2007;2008; 2012;2015)
157 Carmela Shimony (1967)
158 *Beazy Sweeney** (1979) (Vanden Driessche, 1990)
159 Karel Vacek (1977; 1978)
160 Jack J.S. Van Rensen (1978; 1981; 1982; 1984; 1989; 1991; 1993; 1995; 1997; 1999)

161
162 **E. Other co-authors or co-editors (including professors & senior scientists, but**
163 **excluding those in sections A-D)**

164
165 *Ziya Kagranan oglu Abilov (1979)*
166 František Adamec (2003)
167 Alia Alia (2009)
168 Suleyman I. Allakhverdiev (2011—2014; 2016; 2018)
169 John F. Allen (2004)
170 Aikaterni Alygizaki-Zorba (1999)
171 *Jan Amesz** (1996)
172 (Hoff and Aartsma, 2002)
173 Gennady M. Ananyev (2011; 2012)
174 Jessica M. Anna (2017)
175 Khalid Anwar (2018)
176 Paul A. Armond (1981)
177 Eva-Mari Aro (1997;1998)
178 Chantal Astier (1990;1995)
179 Julie Auger (1990)
180 *Gerald (Jerry) T. Babcock** (1974;1975)
181 (*Yocum et al., 2001*)
182 Marcel Babin (2008)

183 **Ion C. Baianu*** (1982, 1983, 1984)
 184 (Brown and Glazebrook , 2013)
 185 Neil R. Baker (2005)
 186 Horatio Bannister (2018)
 187 **Thomas (Tom)Turpin Bannister*** (2017)
 188 (Laws et al., 2018)
 189 James (Jim) Barber (1987; 2012; 2018)
 190 Helen Bassham (2016)
 191 Susan Bassham (2016)
 192 J.Thomas (Tom) Beatty (2003; 2004)
 193 Gerald A. Berkowitz (2007)
 194 Gábor Bernát (2017)
 195 Sudhakar Bharti (1998)
 196 Devika Bhaya (2016)
 197 Karl Y. Biel (2016; 2017)
 198 Ajaya K. Biswal (2012)
 199 Lars Olof Björn (2009; 2012; 2013; 2015--2018)
 200 Clanton C. Black (2008)
 201 L. Curt Blair (1988)
 202 Robert (Bob) E. Blankenship (2007; 2009; 2013; 2018)
 203 Hans J. Bohnert (1999; 2009)
 204 Karolina Bosa (2011; 2012; 2014)
 205 Salil Bose (1981)
 206 Warwick Bottomley (1989)
 207 John S. Boyer (1979;1982)
 208 Jerry J. Brand (2017)
 209 Marian Brestic (2012; 2014)
 210 Vı́teřslav Brezina (2003)
 211 Winslow R. Briggs (1989; 2016)
 212 R. David Britt (2015; 2016)
 213 Donald (Don) Bryant (1989)
 214 Bob B. Buchanan (2015; 2016)
 215 **Rosanna Caliandro** (2011; 2012)
 216 Shiguo Chen (2012)
 217 Yi-Chun Chen (2011; 2012)
 218 Lucinda Choules (2014)
 219 Wah S. (Fred) Chow (2000)
 220 Chengcai Chu (2015; 2018)
 221 **Robert (Bob) M. Clegg*** (2000; 2007; 2010--2012)
 222 (Jovin, 2013; also see <https://physics.illinois.edu/people/memorials/bob-clegg>)
 223 Martin Cohen (2007)
 224 Brendon Conlan (2018)
 225 Jason Cooley (2013)
 226 Robert Cooney (2017)
 227 William (Bill) A. Cramer (1987, 2017)
 228 David Crisp (2007)

- 229 Antony (Tony) R. Crofts (1983;1989;1991;1998; 2008; 2016)
230 John J. Cullen (2008)
231 [Anath Bandhu Das \(2014\)](#)
232 Hank de Klerk (1969)
233 Oscar de Vos (1993;1995)
234 Peter Debrunner (1990;1996)
235 Sandor Demeter (1989)
236 Tanaji S. Desai (1977;1981;1984)
237 Eric deSturler (2005)
238 Elsinraju Devadasu (2015)
239 ***Don Charles DeVault**** (1983;1990)
240 (Seibert, 1991)
241 Charles (Chuck) Dismukes (2018)
242 Roberto Docampo (2001)
243 Günter Döring (1970)
244 ***Roland Douce**** (2015; 2016)
245 (http://www.academiesciences.fr/pdf/membre/DouceR_bio0210.pdf)
246 Stephen R. Downie (1995)
247 W. John S. Downton (1981)
248 Dainis Dravins (2009)
249 Jean-Marc Ducruet (1995)
250 Susan Dutcher (2013)
251 [Gerald E. \(Gerry\) Edwards \(2012\)](#)
252 Peter Eggenberg (1992)
253 Lutz A. Eichacker (2013)
254 Sailaja V. Elchuri (2016)
255 Anne-Lise Etienne (1990;1995)
256 [Ulrich Finkele \(1992\)](#)
257 Darrell Fleischman (2012)
258 David C. Fork (1980;1981;2006)
259 Christine H. Foyer (2005)
260 Susan Frenkel (2015)
261 Georges Freyssinet (1980)
262 Petra Fromme (2017)
263 Christiane Funk (2000)
264 [Gyozo Garab \(1988; 2014\)](#)
265 Ernesto García-Mendoza (2013)
266 Rafael Mikhaylovich Gazanchyan (1979)
267 ***Howard Gest**** (2002; 2003)
268 (Bauer et al., 2012)
269 Christopher (Chris) Gisriel (2017)
270 Joop H.C. Goedheer (1987)
271 Christoph Gohlke (2000; 2007)
272 Cindy S. Goldstein (1989)
273 Vasilij Goltsev (2012; 2014)
274 Harriet H. Gorham (2007)

275 Rajni Govindjee (1956 (as Varma); 1962; 1964; 1965; 1968; 1970; 1974; 1975;1998)
 276 David Grantz (1982)
 277 Enrico Gratton (1990:1993)
 278 Scott Greenfield (1995 --1997)
 279 Arthur (Art) R. Grossman (2016)
 280 Brijesh K. Gupta (2018)
 281 [William Hagar \(2011\)](#)
 282 Behzad Haghighi (2012; 2013)
 283 Steven C. Halls (1995)
 284 Saber Hamdani (2015; 2018)
 285 Jack H. Hammond (1972; 1975)
 286 S.R. Hartman (1969)
 287 Theodore L. Hazlett (1995;1996;1998)
 288 Gregor J. Heiss (2007)
 289 David N. Hendrickson (1980;1986)
 290 Steven (Steve) K. Herbert (2018)
 291 Arnd G. Heyer (2018)
 292 Jane F. Hill (2014)
 293 Rhoda Eleson Hirsch (2010)
 294 Joseph (Yossi) Hirschberg (1992)
 295 George Hoch (1962—1964; 2018)
 296 **Arnold Hoff*** (1977) (Gast et al., 2002)
 297 Barry Holtz (2016; 2017)
 298 Peter Homann (1989)
 299 **Alexander (Alex) Beaumont Hope*** (2000)
 300 (Chow, 2010)
 301 Cai Xia Hou (1998)
 302 Harvey J.M. Hou (2014)
 303 Irada M. Huseynova (2011; 2013; 2016)
 304 Ron Hutchison (1995 --1997)
 305 [Shoji Ichimura \(1960\)](#)
 306 Yorinao Inoue (1983 --1985)
 307 Klaus-Dieter Irrgang (1999)
 308 [Karen Jacobsen-Mispagel \(2012\)](#)
 309 Anjana Jajoo (1998; 2014)
 310 Jiangjun Jiang (2018)
 311 Douglas G. Johnson (1989;1990)
 312 Pierre Joliot (2016)
 313 Douglas (Doug) Jordan (1980)
 314 Wolfgang Junge (1980)
 315 [Hazem M. Kalaji \(2011; 2012; 2014\)](#)
 316 Radek Kaňa (2009; 2012; 2016; 2017)
 317 Deepika Kandoi (2016)
 318 **Navik V. Karapetyan*** (2014)
 319 (Yurina et al., 2017)
 320 Kenneth (Ken) Kaufmann (1979)

321 Aron Keresztes (1981)
322 Cheryl A. Kerfeld (2017)
323 Jan F. Kern (2010)
324 Mika Keränen (1998)
325 Naveed Khan (2018)
326 Yaser R. Khan (2014)
327 Waqasuddin Khan (2018)
328 Nancy Y. Kiang (2007)
329 Hyunook Kim (2015;2017)
330 Diana Kirilovsky (1995)
331 Karel Klem (2016)
332 **David Knaff*** (2006)
333 (Malkin, 2016; also see<https://cen.acs.org/articles/94/i28/David-B-Knaff.html>)
334 Robert (Bob) S. Knox (1996; 2018)
335 Sireesha Kodru (2015)
336 Hiroyuki Koike (1985)
337 Derrick R.J. Kolling (2008)
338 Ondrej Komárek (2009; 2012)
339 Janusz Kościelniak (2011:2012)
340 Eva Kotabová (2012)
341 David (Dave) M. Kramer (1994)
342 Alexander (Sasha) A. Krasnovsky Jr. (2017)
343 **David (Dave) W. Krogmann*** (2002; 2004; 2006)
344 (Brand et al., 2017)
345 Johannes Kromdijk (2018)
346 Jiri Kubásek (2018)
347 Deepak Kumar (2010);
348 Inna Musa gizi Kurbanova (1979)
349 [Agu Laisk \(2003; 2009\)](#)
350 Manmohan Manohar Laloraya (1955;1956)
351 Margaret Gwyn Latimer (2017)
352 Christoph Lauterwasser (1992)
353 Jean Lavorel (1969; 1970;1987)
354 Edward (Ed) Laws (2018)
355 Dusan Lazár (2018)
356 Sadhu Leelavathi (2012)
357 Hong Li (2012)
358 Kuen Bao Li (1997)
359 Ming Li (2018)
360 Rong Li (1995; 1997;1998; 2001)
361 Hartmut K. Lichtenthaler (2015; 2016)
362 Nianyun Lin (1997)
363 Xinyu Liu (2018)
364 Stephen (Steve) P. Long (2005)
365 George Lorimer (2016;2017)
366 [Pirkko Mäenpää \(1995;1997\)](#)

367 Tirupathi Malavath (2015)
368 Alize'e Malnoe (2015)
369 Mahir Mamedov (2015)
370 Dominique Marcelle (2016)
371 **René Marcelle*** (1987)
372 (Govindjee and D. Marcelle, 2016)
373 Norma Marchesini (2001)
374 John L. Markeley (1984)
375 Steve Marks (1978)
376 Peter Maroti (1992; 2016)
377 Paul Mathis (1979)
378 Shizue Matsubara (2011;2012)
379 Leland Mayne (2012)
380 Douglas C. McCain (1984)
381 Victoria S. Meadows (2007)
382 Henri Merkelo (1969;1972;1975;1978;1979;1981)
383 Johannes Messinger (2009; 2010; 2018)
384 **Mamuro Mimuro*** (1998) (unavailable)
385 Jun Minagawa (1998;2008)
386 Teresa Miranda (1995)
387 Tihana Mirkovic (2017)
388 Anamika Mishra (2016; 2018)
389 Kumud B. Mishra (2016; 2018)
390 Amarendra M. Misra (2017)
391 Atefeh Nemati Moghaddam (2012; 2013)
392 Sasmita Mohanty (2016)
393 Gary Moore (2012)
394 John Mullett (1989)
395 Paula Mulo (1997; 1998)
396 Norio Murata (1983; 1998; 2014)
397 Neti R. Murty (1967)
398 Jason Musick (2013)
399 **J. Dirk Naber (1993)**
400 Victor Nadtochenko (2015)
401 Sushma Naithani (2018)
402 Mohammad Mahdi Najafpour (2011 --2014)
403 Herbert (Herb)Y. Nakatani (1984)
404 Ladislav (Lada) Nedbal (2003;2007;2009;2012)
405 Sreedhar Nellaepalli (2015)
406 Karin Nickelsen (2011; 2012)
407 Arthur M. Nonomura (2016; 2017)
408 Constance G. Nozzolillo (2007)
409 **Michael P. O'Neil (1992)**
410 Hector Ocampo-Alvarez (2013)
411 Dieter Oesterhelt (1992)
412 William (Bill) Ogren (1984, 1989)

413 Nir Ohad (1992)
 414 Vello Oja (2003)
 415 Larry Orr (1998; 2001; 2007; 2010; 2013: of “Photosynthesis and WWW” fame)
 416 Donald (Don) R. Ort (1987;1991;2005; 2015; 2016)
 417 Evgeny E. Ostroumov (2014; 2017)
 418 Olga v. H. Owens (1963)
 419 **Sean Padden (2008)**
 420 Subhash Padhye (1980;1986)
 421 Himadri Pakrasi (1989)
 422 Shiv S. Pandey (2012)
 423 Dominick J Paolillo (1974)
 424 P. Pardha-Saradhi (2015;2017)
 425 Ashwani Pareek (2009; 2018)
 426 Saya Patil (1998)
 427 Gopal K. Pattanayak (2012)
 428 Michael (Mike) Pellin (1979)
 429 Shahnaz Perveen (2018)
 430 Wil R. Peters (2002)
 431 Brigetta Peteri (1990;1995)
 432 Klaus Pfister (1981;1992)
 433 Roman Y. Pishchalnikov (2013)
 434 Vladimir O. Popov (2017)
 435 Robert (Bob) J. Porra (2007)
 436 Archie R. Portis Jr. (2006; 2007; 2012)
 437 Ondřej Prašil (2008; 2009; 2012; 2017)
 438 Christopher Preston (1989; 1990)
 439 Roger C. Prince (2015; 2016)
 440 M.P.J. (Tinus) Pulles (1976; 2016)
 441 Hope Punnett (2011)
 442 [See Hagar et al. (2011) for a Tribute to **Tom Punnett***]
 443 Laura Punnett (2011)
 444 **Sheng Qiang (2012)**
 445 Mingnan Qu (2015; 2018)
 446 **S. Rajan (1981;1983)**
 447 Tadimeti Rajarao (1955; 1956)
 448 Ravi Rajwanshi (2010)
 449 Silvia Ramundo (2017)
 450 **Fabrice Rappaport*** (2015)
 451 ([https://www.journals.elsevier.com/biochimica-et-biophysica-acta-bioenergetics/editorial-](https://www.journals.elsevier.com/biochimica-et-biophysica-acta-bioenergetics/editorial-board/fabrice-rappaport-)
 452 [board/fabrice-rappaport-](https://www.journals.elsevier.com/biochimica-et-biophysica-acta-bioenergetics/editorial-board/fabrice-rappaport-) A tribute is being prepared for publication in 2019)
 453 Constatin (Tino) A. Rebeiz (1980)
 454 Kevin Redding (2017)
 455 Vanga S. Reddy (2012)
 456 **Gernot Renger*** (1977;1983;1985;1993;1999)
 457 (Siggel et al., 2016)
 458 Marvin Rich (2010)

459 Galina Yu. Riznichenko (2014)
460 Howie Robinson (1984;1989)
461 Jean-David Rochaix (1991)
462 Margarita V. Rodionova (2018)
463 Robin Roffey (1994)
464 Suzanne Marguerite Dethier Rogers (1988;1989)
465 J. C. Romijn (1977)
466 Stuart Rose (2008)
467 Guy Roy (1974)
468 Cathy Royer (1993)
469 Zsuzsa Rozsa (1988)
470 Kang-Cheng Ruan (2000;2001)
471 Alexander B. Rubin (2014)
472 Felix A. Ruiz (2001)
473 Indumati (Indu) S. Rupassara, (2012; 2015)
474 William (Bill) A. Rutherford (1984)
475 **Göran Samuelsson (2018)**
476 Prafulla Chandra Vishnu (Raj) Sane (1977;1981;1984;2014)
477 Sathon Saphon (1979)
478 Sudhir Sapory (1999; 2009)
479 Neera Bhalla Sarin (2010)
480 Shai Saroussi (2017)
481 Kazuhiko Satoh (1986)
482 Kimiyuki Satoh (1983)
483 Sergei Savikhin (2011)
484 Richard (Dick) Sayre (1994--1997)
485 Gert Schansker (1997; 2001;2003)
486 Lance C. Schideman (2012; 2015)
487 Paul G. Schmidt (1975; 1976; 1978)
488 Greg D. Scholes (2014; 2017)
489 Beatrice Schwarz (1991)
490 Barbora Šedivá (2012)
491 Antígona Segura (2007)
492 Michael (Mike) Seibert (1989;1990;1992;1994—1997; 2010)
493 Ted C. Selig (1984)
494 Alexy Semenov (2015)
495 Melih Sener (2010)
496 **Zdenek Sestak*** (2002)
497 (Naus et al., 2009; Lichtenthaler, 2018)
498 Nisha Shabnam (2015;2017)
499 Ashutosh Sharan (2018)
500 Thomas (Tom) D. Sharkey (2000-- 2018)
501 Anuradha Sharma (2015)
502 P. Sharmila (2015; 2017)
503 Jian-Ren Shen (2012;2018)
504 Yun-Kang Shen (1995; 1997;1998;2000; 2001)

505 Louis A. (Lou) Sherman (2012)
 506 Dmitriy (Dima) Shevela (2011—2013; 2017; 2018)
 507 Hyunsuk Shim (1990)
 508 Vladimir (Vlad) Shinkarev (1993;1997;1998)
 509 Robert (Bob) Shopes (1987;1989; 2007)
 510 Vladimir (Vlad) A. Shuvalov (2018)
 511 Yona Siderer (2018)
 512 Janet Siefert (2007)
 513 Ulrich (Uli) Siggel (1977)
 514 Abhay Singh (2012)
 515 **Gauri Shankar Singhal*** (1969;1972; 1999)
 516 (Andley et al., 2005)
 517 Sneha Lata Singla-Pareek (2018)
 518 William R. (Bill) Smith (1974; 1975)
 519 Jan Snel (1993)
 520 Neelam Soda (2018)
 521 Chris Somerville (1989)
 522 Hong -Yu Song (1997)
 523 Sudhir K. Sopory (1999; 2009)
 524 Martin H. Spalding (1984)
 525 Marc Spector (1980)
 526 **Jobie C. Spencer*** (1966)
 527 (<http://www.news-gazette.com/obituaries/2015-07-20/jobie-spencer.html>)
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610 Krystyna Zuk-Golaszewska (2011, 2012)
611 Nicholas (Nick) Zumbulyadis (1975, 1976)

612
613 **Appendix 1** has some selected quotes of general interest, arranged by the year of birth of the
614 author cited.

615

616 **Epilog**

617

618 **My Family**

619 I end this “Letter” by remembering (from early days in Allahabad till I came to Urbana in 1956) a
620 large number of wonderful teachers and friends (without naming them), and my father
621 (*Vishveshwar Prasad; he had passed away when I was 11 year old boy), mother (*Savitri Devi),
622 elder brothers (*Krishnaji & *Gopali), elder sister (*Malati Sahay), sisters-in-law *Bimla (wife
623 of *Krishnaji) & Nirmala (wife of *Gopalji), and brother-in-law Radha Krishna Sahay (husband
624 of *Malati), who supported me when I was growing up in Allahabad, India (see Govindjee, 2007;
625 Govindjee and Srivastava, 2010) .

626 However, during most of my professional life in Urbana (since 1957- till now), I owe my
627 life and ability to work primarily to my wife Rajni and our family (daughter Anita, son-in-law
628 Morten Christiansen and their daughter Sunita; son Sanjay, daughter-in-law Marilyn, and their
629 sons Arjun and Rajiv). (See Ebrey (2015) for a wonderful article on Rajni; and Ravi Sharma’s
630 web site on both of us: <https://www.linkedin.com/pulse/govindjee-rajni-confluence-photosynthesis-dr-ravi-sharma>)
631

632

633 **Photosynthesis group at UIUC**

634 What has been crucial and important for my continued interest and excitement in photosynthesis
635 research is the comradery of the “Photosynthesis Gang” at UIUC that has included (in no
636 particular order) the following: Charles (Charlie) Joel Arntzen; Christiaan (Chris) Sybesma;
637 Donald (Don) Richard Ort; Colin A. Wraight*, C. John Whitmarsh; William (Bill) Ogren;
638 Anthony (Tony) Crofts; Constantin (Tino) Rebeiz; Archie R. Portis; Stephen (Steve) Long; Carl
639 Bernacchi; Elizabeth (Lisa) Ainsworth; and Andrew Leaky. Amongst these, Tony Crofts and I
640 have collaborated the most; Bill Ogren and I taught a course together; John Whitmarsh and I
641 wrote educational articles together; and Colin Wraight and I discussed almost everything related
642 to our academic life. I always rely (and relied) on Don Ort’s opinions on most things. He even

643 interviewed me for the Annual Reviews Inc (see:
644 <https://www.youtube.com/watch?v=cOzuL0vxEi0>).

645 At the end, I wish to mention Rudolph (Rudy) Marcus, who was on the faculty in the
646 Chemistry Department at UIUC, when I had the privilege of having him attend all my lectures on
647 *Bioenergetics of Photosynthesis*. I learned a lot from him from the questions he asked me during
648 and after almost all my lectures; he taught me a lot. I was thrilled beyond any imagination when
649 he received the 1992 Nobel Prize in Chemistry.

650
651

652 **Acknowledgments**

653 I am highly grateful to many around the World (footnote 1) who hosted me during my visits to
654 their laboratories, whether it was short or a long visit. Since the list is too long, and I am sure to
655 miss many, I decided to thank them all without mentioning any names. However, I want to
656 remember the hospitality of many who are no more; this includes: Warren Butler*, Lou Duysens*;
657 Stacy French*; Bessel Kok*; Hartmut Metzner*; Prasanna Mohanty*; Gernot Renger*, Gauri
658 Shankar Singhal*; and Jan B. Thomas*.

659 Any letter of thanks of any kind will be incomplete without mentioning the kindness of Julian
660 Eaton- Rye who has remembered me, in great depth, at my 75th, 80th and 85th birthday (Eaton- Rye
661 2007a, 2007b, 2012, 2013, 2018, 2019; also see Soni, 2018; and Soni and Kaur, 2018). The last
662 and not the least is the constant support of the past and the present Heads, the faculty members,
663 and the staff of the Department of Plant Biology (Botany in earlier days), Department of
664 Biochemistry, and the Center of Biophysics & Quantitative Biology, as well as all the current and
665 the past members of the Office of Information Technology in the School of Integrative Biology
666 (SIB) & of Molecular & Cell Biology (MCB).

667
668 -----

669 **Footnote 1**

670 During my academic career, I have interacted with scientists from a large number of countries,
671 and this has certainly enriched my life. My list of countries includes: Australia; Azerbaijan;
672 Belgium; Canada; China; Czech Republic; Egypt; Estonia; Finland; France; Germany; Greece;
673 Hungary; India; Iran; Iraq; Israel; Italy; Japan; Korea ((South)); Mexico; Netherlands; New
674 Zealand; Pakistan; Poland; Romania; Russia; Slovakia; Spain; Sweden; Switzerland; Taiwan;
675 Tunisia; Turkey; UK (England and Scotland); and, USA.

676 -----

677 **Conflict of interest**

678 I have no conflict of interest with any person or any organization.

679

680 **Appendix 1**

681

682 **Some selected quotes of general interest, arranged by the year of birth of the author cited.**

683

684 **Quintus Horatius Flaccus (Horace) (65BC-8BC):** ‘When I find a bit of leisure, I trifle with my
685 papers. This is one of the lesser frailties.’

686

687 **Andrew Marvell (1621- 1678):**

688 ‘No white nor red was ever seen

689 So amorous as this lovely green.
690 Fond lovers, cruel as their flame,
691 Cut in these trees their mistress' name:
692 Little alas! they know or heed
693 How far these beauties her exceed!
694 Fair trees! Where'er your barks I wound,
695 No name shall but your own be found.'

697 **Jonathan Swift (1657—1745):** 'And he [the King of Brobdingnag) gave it for his opinion, that
698 whoever could make two ears of corn, or two blades of grass to grow upon a spot of ground where
699 only one grew before, would deserve better of mankind, and do more essential service to his
700 country, than the whole race of politicians put together.'

702 **Jan Ingenhousz (1730-1799):** 'I observed that plants not only have a faculty to correct bad air in
703 six to ten days, by growing in it... but that they perform this important office in a complete
704 manner in a few hours; that this wonderful operation is by no means owing to the vegetation of
705 the plant, but to the influence of light of the sun upon the plant. '

707 **Johann Wolfgang von Goethe (1749-1832):** 'Everything reasonable has been thought of before.
708 We just have to try to think it once anew.'

710 **Samuel Taylor Coleridge (1772- 1834):** 'The tree is more valuable than its fruits. The intellect
711 itself –has it evolved? The methods of discovery, the mental experiences, the hidden mechanism
712 of intuition –have they not remained somewhat the same?'

714 **Ralph Waldo Emerson (1803-1888):** 'Do not go where the path may lead, go instead where
715 there is no path and leave a trail. '

717 **James Prescott Joule (1818—1889):** 'The scientist must be humble, diligent, energetic, patient,
718 and zealous. The first object of natural science is to elevate humanity in the scale of creatures, and
719 the second is to promote wellbeing.'

721 **Ernst Waldfried Josef Wenzel Mach (1838-1916):** 'It is hardly possible to state any truth
722 strongly without apparent injustice to some other.'

724 **Wynwood Reade (1838-1875):**
725 'Glorious Apollo is the parent of us all.
726 Animal heat is solar heat;
727 A blush is a stray sunbeam;
728 Life is bottled sunshine,
729 and Death the silent-footed butler who draws out the cork'

731 **Albert Einstein (1879 - 1955) :** 'I am enough of the artist to draw freely upon my imagination.
732 Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the
733 world.'

734

735 **Chandrasekhara Venkata Raman (1888-1970):** ‘Ask the right questions, and nature will open
736 the doors to her secrets’; ‘ Success can come to you by courageous devotion to the task lying in
737 front of you.’
738

739 **C. Stacy French (1907- 1995;** see Govindjee and Fork, 2006): ‘In early 1928, a few lectures on
740 photosynthesis by Robert Emerson, who had recently returned with a PhD from Otto Warburg’s
741 laboratory in Berlin, got me interested enough to take Emerson’s course on photosynthesis the
742 following year, and I have stayed with the subject ever since.’
743

744 **May Sarton (1912-995):** ‘...unable to disentangle truth from its web of prejudice. Discoveries
745 are evanescent, because they are soon replaced by better ones. Discoveries may be important, but
746 personalities are infinitely more so.’
747

748 **Martin Kamen (1913-2002;** see Govindjee and Blankenship, 2018): ‘Bone-tired and red-
749 eyed, I shut down the machine, rescued the remaining fragments of carbon target, which resembled
750 so many bits of intensely radioactive bird gravel, and shambled over to the ramshackle hut in which
751 [Dr] Samuel Ruben, my collaborator, worked and would be appearing shortly. These precious bits
752 of discouraged graphite hopefully contained evidence for the existence of a long-lived radiocarbon
753 form of carbon.’
754

755 **Andre Jagendorf (1926-2017;** see Govindjee, 2017): ‘I had heard Peter Mitchell speak about
756 chemiosmosis at a bioenergetics meeting in Sweden. His words went into one of my ears and out
757 the other, leaving me feeling annoyed they allowed such a ridiculous and incompetent speaker in.
758 But Geoffrey (Hind) read Nature. . . . During the discussion, it occurred to us that we might be
759 able to see the pH in the medium rise during light driven electron flow. I stayed in the lab late the
760 same evening and watched the needle of the pH meter rise in the light and fall in the dark. It was
761 the first time I remembered an immediately successful test of a working hypothesis – it was fun.’
762

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764
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