

**The Average AMS fellow who died before Aug. 2022 lived 83.36 years,
published 98.53 papers, and was cited 2473.23 times**

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Abstract: Using data collected from the AMS websites, and the internet in general, we compute the weight-enumerator of the set of 145 AMS fellows who passed away before Aug. 2022, according to the statistics [Age, Number of Publications, Number of Citations]. Using Maple and elementary calculus, we deduced from it the numbers stated in the title, as well as much more detailed and fascinating statistical information. For example, while the correlation coefficient between the number of publications and number of citations is, not surprisingly, positive, it is far lower than one would expect, being a mere 0.5797 . The appendices contain the rankings according to longevity, number of publications, and number of citations.

Lemma: The weight-enumerator of the set of AMS fellows who died before Aug. 2022, where the weight of a fellow is

$$a^{\text{AgeAtDeath}} p^{\text{NumberOfPublications}} c^{\text{NumberOfCitations}} ,$$

let's call it $F(a, p, c)$, is the following polynomial of degree 100 in a , degree 453 in p , and degree 27492 in c :

$$\begin{aligned} F(a, p, c) = & \\ & c^{173} p^{24} a^{48} + (c^{2898} p^{122} + c^{1859} p^{111}) a^{58} + (c^{2116} p^{48} + c^{1265} p^{57}) a^{59} + c^{8482} p^{113} a^{60} + c^{101} p^{40} a^{63} \\ & + (c^{9810} p^{453} + c^{882} p^{46}) a^{65} + (c^{2084} p^{84} + c^{1337} p^{92} + c^{366} p^{39}) a^{66} + c^{3924} p^{117} a^{68} + c^{756} p^{55} a^{70} \\ & + c^{11987} p^{323} a^{72} + (c^{1692} p^{133} + c^{734} p^{50}) a^{73} + (c^{6030} p^{122} + c^{2677} p^{186} + c^{1624} p^{77} + c^{341} p^{18}) a^{74} \\ & + (c^{749} p^{47} + c^{658} p^{42} + c^{145} p^{25}) a^{75} + (c^{3918} p^{106} + c^{1867} p^{107} + c^{1781} p^{136} + c^{1309} p^{183}) a^{76} \\ & + (c^{2137} p^{175} + c^{451} p^{45}) a^{77} + (c^{4633} p^{189} + c^{4068} p^{132} + c^{1891} p^{66} + c^{914} p^{61}) a^{78} \\ & \quad + (c^{2563} p^{48} + c^{1596} p^{65} + c^{1550} p^{70} + c^{181} p^{34} + c^{157} p^{29}) a^{79} \\ & \quad + (c^{3732} p^{168} + c^{1370} p^{49} + c^{503} p^{33} + c^{428} p^{23} + c^{281} p^{37}) a^{80} \\ & \quad + (c^{15121} p^{159} + c^{1937} p^{166} + c^{873} p^{31} + c^{560} p^{67} + c^{121} p^{39}) a^{81} \\ & + (c^{4096} p^{181} + c^{2776} p^{138} + c^{2336} p^{149} + c^{2111} p^{190} + c^{2035} p^{64} + c^{1507} p^{84} + c^{1281} p^{164}) a^{82} \\ & \quad + (c^{2604} p^{79} + c^{1746} p^{153} + c^{1658} p^{81} + c^{1509} p^{78} + c^{781} p^{26} + c^{133} p^{27}) a^{83} \\ & + (c^{3509} p^{118} + c^{3484} p^{82} + c^{1497} p^{146} + c^{1510} p^{53} + c^{1172} p^{74} + c^{542} p^{46} + c^{526} p^{34} + c^{336} p^{23} + c^{161} p^{31}) a^{84} \\ & \quad + (c^{7500} p^{363} + c^{4772} p^{193} + c^{4490} p^{126} + c^{2116} p^{164} + c^{1231} p^{47}) a^{85} \\ & + (c^{4802} p^{163} + c^{2165} p^{57} + c^{1826} p^{66} + c^{1118} p^{71} + c^{452} p^{46} + c^{275} p^{42}) a^{86} \end{aligned}$$

$$\begin{aligned}
& + (c^{27492}p^{237} + c^{3185}p^{29} + c^{2519}p^{71} + c^{1642}p^{105} + c^{1211}p^{31} + c^{978}p^{41}) a^{87} \\
& + (c^{2845}p^{102} + c^{1850}p^{106} + c^{1726}p^{69} + c^{1173}p^{49} + c^{1146}p^{29} + c^{1086}p^{81} + c^{426}p^{35} + c^{142}p^{19} + c^{12}p^{11}) a^{88} + \\
& (c^{6664}p^{115} + c^{5937}p^{180} + c^{4743}p^{200} + c^{4367}p^{114} + c^{4066}p^{167} + c^{3814}p^{271} + c^{2248}p^{101} + c^{1610}p^{89} + c^{1130}p^{159} \\
& \quad + c^{1107}p^{111} + c^{1054}p^{61} + c^{791}p^{87} + c^{239}p^{99}) a^{89} + \\
& (c^{12281}p^{269} + c^{3685}p^{110} + c^{2851}p^{222} + c^{145}p^{37}) a^{90} \\
& + (c^{2639}p^{288} + c^{1183}p^{57} + c^{664}p^{118} + c^{525}p^{39} + c^{152}p^{17} + c^{52}p^{36}) a^{91} \\
& \quad + (c^{1601}p^{59} + c^{1065}p^{59} + c^{498}p^{99}) a^{92} \\
& + (c^{8722}p^{114} + c^{4107}p^{70} + c^{3655}p^{321} + c^{3633}p^{105} + c^{2886}p^{87} + c^{2128}p^{178} + c^{1254}p^{37} + c^{41}p^{19}) a^{93} \\
& \quad + (c^{5626}p^{95} + c^{1295}p^{82} + c^{214}p^{27} + c^2p^5) a^{94} + (c^{17621}p^{175} + c^{586}p^{58} + c^{400}p^{182}) a^{95} \\
& \quad + (c^{1632}p^{90} + c^{712}p^{46} + c^{206}p^{66}) a^{96} + \\
& (c^{5215}p^{96} + c^{778}p^{75}) a^{97} + c^{272}p^{86}a^{99} + c^{401}p^{93}a^{100} \quad .
\end{aligned}$$

First we turn the enumeration generating function to a probability generating function by dividing by $F(1, 1, 1) = 145$.

$$f(a, p, c) := \frac{F(a, p, c)}{F(1, 1, 1)} = \frac{1}{145}F(a, p, c) \quad .$$

We are now ready to prove our theorem.

Theorem :

- The average age at death of an AMS Fellow who died before Aug. 2022 is 83.3655, the standard deviation is 9.343, the skewness is, -1.079 , and the kurtosis is 4.3277.
- The average number of publications is 98.531, the standard deviation is 73.942, the skewness is 1.757, and the kurtosis is 7.1779.
- The average number of citations is 2473.234, the standard deviation is 3455.194, the skewness is 3.97, and the kurtosis is, 23.993.
- The correlation coefficient between the age at death and the number of publications is 0.003, between the age at death and the number of citations is 0.011, while the correlation between the number of publications and number of citations is 0.57973.

Proof: We have, of course

$$\mu_{age} = \frac{\partial}{\partial a} f(a, p, c) \Big|_{a=1, p=1, c=1} \quad ,$$

$$\mu_{pub} = \frac{\partial}{\partial p} f(a, p, c) \Big|_{a=1, p=1, c=1} \quad ,$$

$$\mu_{cit} = \frac{\partial}{\partial c} f(a, p, c) \Big|_{a=1, p=1, c=1} \quad .$$

Now, let's define

$$\bar{f}(a, p, c) := \frac{f(a, p, c)}{a^{\mu_{age}} p^{\mu_{pub}} c^{\mu_{cit}}} \quad .$$

We have, of course, that the **moments about the mean** are:

$$M_{r,s,t} = E[(age - \mu_{age})^r (pub - \mu_{pub})^s (cit - \mu_{cit})^t] = \left(a \frac{\partial}{\partial a} \right)^r \left(p \frac{\partial}{\partial p} \right)^s \left(c \frac{\partial}{\partial c} \right)^t \bar{f}(a, p, c) \Big|_{a=1, p=1, c=1} \quad ,$$

and finally the **scaled moments** are

$$\alpha_{r,s,t} = \frac{M_{r,s,t}}{M_{2,0,0}^{r/2} M_{0,2,0}^{s/2} M_{0,0,2}^{t/2}} \quad .$$

The numbers stated in the theorem are, respectively,

- $\mu_{age}, \sqrt{M_{2,0,0}}, \alpha_{3,0,0}, \alpha_{4,0,0}$
- $\mu_{pub}, \sqrt{M_{0,2,0}}, \alpha_{0,3,0}, \alpha_{0,4,0}$
- $\mu_{cit}, \sqrt{M_{0,0,2}}, \alpha_{0,0,3}, \alpha_{0,0,4}$
- $\alpha_{1,1,0}, \alpha_{1,0,1}, \alpha_{0,1,1}$.

Appendix I: The Dead AMS Fellows According to Age

Here are all the dead fellows listed, in decreasing order of their age at death, followed by their number of publications and number of citations in MathSciNet (viewed Aug. 2022).

There was 1 fellow who died at the age of **100**

Maurice H. Heins (1915-2015) 93;401

There was 1 fellow who died at the age of **99**

Lee Lorch (1915-2014) 86;272

There were 2 fellows who died at the age of **97**

Komaravolu Chandrasekharan (1920-2017) 75;778

Isadore M. Singer (1924-2021) 96;5215

There were 3 fellows who died at the age of **96**

Jane Cronin Scanlon (1922-2018) 66;206

Bjarni Jonsson (1920-2016) 90;1632

Richard D. Schafer (1918-2014) 46;712

There were 3 fellows who died at the age of **95**

Edgar H. Brown (1926-2021) 58;586

Donald A.S. Fraser (1925-2020) 182;400

Louis Nirenberg (1925-2020) 175;17621

There were 4 fellows who died at the age of **94**

Lida K. Barrett (1927-2021) 5;2

Cathleen Synge Morawetz (1923-2017) 82;1295

John T. Tate (1925-2019) 95;5626

John H. Walter (1927-2021) 27;214

There were 8 fellows who died at the age of **93**

Tom M. Apostol (1923-2016) 87;2886

Arthur Herbert Copeland (1926-2019) 19;41

Richard V. Kadison (1925-2018) 105;3633

Joseph B. Keller (1923-2016) 321;3655

John C. Moore (1923-2016) 37;1254

Murray Rosenblatt (1926-2019) 178;2128

Lloyd Stowell Shapley (1923-2016) 70;4107

Guido Weiss (1928-2021) 114;8722

There were 3 fellows who died at the age of **92**

Edward Fadell (1926-2018) 59;1065

Walter Noll (1925-2017) 59;1601

Herman Rubin (1926-2018) 99;498

There were 6 fellows who died at the age of **91**

Harvey Cohn (1923-2014) 118;664

Jean-Pierre Kahane (1926-2017) 288;2639

Arthur P. Mattuck (1930-2021) 17;152

Isaac Namioka (1928-2019) 57;1183

Howard Osborn (1928-2019) 36;52

Maurice Sion (1927-2018) 39;525

There were 4 fellows who died at the age of **90**

Steve Armentrout (1930-2020) 37;145

Sir Michael Atiyah (1929-2019) 269;12281

Manfredo P. doCarmo (1928-2018) 110;3685

Eugene B. Dynkin (1924-2014) 222;2851

There were 13 fellows who died at the age of **89**

Felix E. Browder (1927-2016) 200;4743

Jim Douglas, Jr. (1927-2016) 180;5937

Branko Grunbaum (1929-2018) 271;3814

Junichi Igusa (1924-2013) 89;1610

Bertram Kostant (1928-2017) 114;4367

Wilhelmus Luxemburg (1929-2018) 111;1107

Sibe Mardeic (1927-2016) 159;1130

Albert Nijenhuis (1926-2015) 61;1054

Vera Pless (1931-2020) 101;2248

Mary Ellen Rudin (1924-2013) 87;791

Victor L. Shapiro (1924-2013) 99;239

Hans Weinberger (1928-2017) 115;6664

Harold Widom (1932-2021) 167;4066

There were 9 fellows who died at the age of **88**

William Bade (1924-2012) 35;426

Richard L. Bishop (1931-2019) 49;1173

Solomon Feferman (1928-2016) 29;1146

Ronald K. Getoor (1929-2017) 106;1850

Heini Halberstam (1926-2014) 81;1086

James M. Kister (1930-2018) 19;142

Carole B. Lacampagne (1933-2021) 11;12

Ernest A. Michael (1925-2013) 102;2845

Conjeeveram Srirangachari Seshadri (1932-2020) 69;1726

There were 6 fellows who died at the age of **87**

Elliott Ward Cheney, Jr. (1929-2016) 105;1642

Robert Ellis (1926-2013) 41;978

John Hempel (1935-2022) 31;1211

John F. Nash, Jr. (1928-2015) 29;3185

Robert R. Phelps (1926-2013) 71;2519

Elias M. Stein (1931-2018) 237;27492

There were 6 fellows who died at the age of **86**

Richard Askey (1933-2019) 163;4802

Donald L. Burkholder (1927-2013) 57;2165

Pierre E. Conner, Jr. (1932-2018) 71;1118

Louis Howard (1929-2015) 42;275

Rudolf Kalman (1930-2016) 66;1826

Ray Kunze (1928-2014) 46;452

There were 5 fellows who died at the age of **85**

Roy Adler (1931-2016) 47;1231

Peter Duren (1935-2020) 126;4490

Ronald Graham (1935-2020) 363;7500

Andras Hajnal (1931-2016) 164;2116

Harry Kesten (1931-2016) 193;4772

There were 9 fellows who died at the age of **84**

Donald Babbitt (1936-2020) 31;161

Robert J. Blattner (1931-2015) 23;336

Harold M. Edwards (1936-2020) 46;542

Edward G. Effros (1935-2019) 82;3484

Paul Fife (1930-2014) 118;3509

Solomon Golomb (1932-2016) 146;1497

Jacques Jean-Pierre Neveu (1932-2016) 74;1172

Robert T. Seeley (1932-2016) 53;1510

Henry Wente (1936-2020) 34;526

There were 6 fellows who died at the age of **83**

JMichael Boardman (1938-2021) 26;781

W. Wistar Comfort (1933-2016) 153;1746

Richard Pollack (1935-2018) 81;1658

Charles J. Stone (1936-2019) 79;2604

Joseph F. Traub (1932-2015) 78;1509

Alphonse T. Vasquez (1938-2021) 27;133

There were 7 fellows who died at the age of **82**

Shreeram Abhyankar (1930-2012) 190;2111

Richard M. Dudley (1938-2020) 138;2776

Clifford John Earle, Jr. (1935-2017) 84;1507

Mark Mahowald (1931-2013) 164;1281

Edward Nelson (1932-2014) 64;2035

Joel A. Smoller (1935-2017) 181;4096

Veeravalli S. Varadarajan (1937-2019) 149;2336

There were 5 fellows who died at the age of **81**

Kenneth I. Appel (1932-2013) 31;873

Gilbert Baumslag (1933-2014) 166;1937

Samuel Gitler (1933-2014) 67;560

Lars Hormander (1931-2012) 159;15121

Aderemi Oluyomi Kuku (1941-2022) 39;121

There were 5 fellows who died at the age of **80**

Ronald G. Douglas (1938-2018) 168;3732

Robert M. Miura (1938-2018) 49;1370

Paul J. Sally, Jr. (1933-2013) 37;281

Charles C. Sims (1937-2017) 33;503

Myles Tierney (1937-2017) 23;428

There were 5 fellows who died at the age of **79**

Alan Baker (1939-2018) 65;1596

Elwyn Berlekamp (1940-2019) 70;1550

Aldridge Bousfield (1941-2020) 48;2563

Kenneth I. Gross (1938-2017) 34;181

Lesley M. Sibner (1934-2013) 29;157

There were 4 fellows who died at the age of **78**

Joyce R. McLaughlin (1939-2017) 61;914

George R. Sell (1937-2015) 132;4068

Robert Strichartz (1943-2021) 189;4633

William A. Veech (1938-2016) 66;1891

There were 2 fellows who died at the age of **77**

David Cantor (1935-2012) 45;451

Lawrence Shepp (1936-2013) 175;2137

There were 4 fellows who died at the age of **76**

Frederick R. Cohen (1946-2022) 136;1781

Vladimir F. Demyanov (1938-2014) 183;1309

Peter M. Gruber (1941-2017) 107;1867

Thomas M. Liggett (1944-2020) 106;3918

There were 3 fellows who died at the age of **75**

Paul Chernoff (1942-2017) 42;658

Samuel M. Rankin, III (1945-2020) 25;145

Clarence W. Wilkerson, Jr. (1944-2019) 47;749

There were 4 fellows who died at the age of **74**

Colin J. Bushnell (1947-2021) 77;1624

Anatole Katok (1944-2018) 122;6030

Lynn Arthur Steen (1941-2015) 18;341

Jan C. Willems (1939-2013) 186;2677

There were 2 fellows who died at the age of **73**

Georgia Benkart (1949-2022) 133;1692

Oscar E. Lanford, III (1940-2013) 50;734

There was 1 fellow who died at the age of **72**

Andrew J. Majda (1949-2021) 323;11987

There was 1 fellows who died at the age of **70**

Steven M. Zucker (1949-2019) 55;756

There was 1 fellow who died at the age of **68**

Vaughan F. R. Jones (1952-2020) 117;3924

There were 3 fellows who died at the age of **66**

Walter Craig (1953-2019) 84;2084

Stephen A. Mitchell (1951-2017) 39;366

Edward Odell (1947-2013) 92;1337

There were 2 fellows who died at the age of **65**

Jonathan Michael Borwein (1951-2016) 453;9810

David Goss (1952-2017) 46;882

There was 1 fellows who died at the age of **63**

Lynne H. Walling (1958-2021) 40;101

There was 1 fellow who died at the age of **60**

Andrei V. Zelevinsky (1953-2013) 113;8482

There were 2 fellows who died at the age of **59**

Tim D. Cochran (1955-2014) 57;1265

John Roe (1959-2018) 48;2116

There were, 2, fellows who died at the age of **58**

Nikolai Chernov (1956-2014) 111;1859

Robin Thomas (1962-2020) 122;2898

There was 1 fellow who died at the age of **48**

Thomas Nevins (1972-2020) 24;173

Appendix II: Ranking the AMS Fellows who died before Aug. 2022 According to Decreasing Number of Publications

Here is the list of all 145 dead AMS fellows in decreasing order of their number of publications. It lists the year of birth, year of death, number of publications, and number of citations.

1. Jonathan Michael Borwein (1951-2016) 453;9810
2. Ronald Graham (1935-2020) 363;7500
3. Andrew J. Majda (1949-2021) 323;11987
4. Joseph B. Keller (1923-2016) 321;3655
5. Jean-Pierre Kahane (1926-2017) 288;2639
6. Branko Grunbaum (1929-2018) 271;3814
7. Sir Michael Atiyah (1929-2019) 269;12281
8. Elias M. Stein (1931-2018) 237;27492
9. Eugene B. Dynkin (1924-2014) 222;2851
10. Felix E. Browder (1927-2016) 200;4743
11. Harry Kesten (1931-2016) 193;4772
12. Shreeram Abhyankar (1930-2012) 190;2111
13. Robert Strichartz (1943-2021) 189;4633
14. Jan C. Willems (1939-2013) 186;2677
15. Vladimir F. Demyanov (1938-2014) 183;1309
16. Donald A.S. Fraser (1925-2020) 182;400
17. Joel A. Smoller (1935-2017) 181;4096
18. Jim Douglas, Jr. (1927-2016) 180;5937
19. Murray Rosenblatt (1926-2019) 178;2128
20. Lawrence Shepp (1936-2013) 175;2137

21. Louis Nirenberg (1925-2020) 175;17621
22. Ronald G. Douglas (1938-2018) 168;3732
23. Harold Widom (1932-2021) 167;4066
24. Gilbert Baumslag (1933-2014) 166;1937
25. Mark Mahowald (1931-2013) 164;1281
26. Andras Hajnal (1931-2016) 164;2116
27. Richard Askey (1933-2019) 163;4802
28. Sibe Mardesic (1927-2016) 159;1130
29. Lars Hormander (1931-2012) 159;15121
30. W. Wistar Comfort (1933-2016) 153;1746
31. Veeravalli S. Varadarajan (1937-2019) 149;2336
32. Solomon Golomb (1932-2016) 146;1497
33. Richard M. Dudley (1938-2020) 138;2776
34. Frederick R. Cohen (1946-2022) 136;1781
35. Georgia Benkart (1949-2022) 133;1692
36. George R. Sell (1937-2015) 132;4068
37. Peter Duren (1935-2020) 126;4490
38. Robin Thomas (1962-2020) 122;2898
39. Anatole Katok (1944-2018) 122;6030
40. Paul Fife (1930-2014) 118;3509
41. Harvey Cohn (1923-2014) 118;664
42. Vaughan F. R. Jones (1952-2020) 117;3924
43. Hans Weinberger (1928-2017) 115;6664
44. Guido Weiss (1928-2021) 114;8722
45. Bertram Kostant (1928-2017) 114;4367

46. Andrei V. Zelevinsky (1953-2013) 113;8482
47. Wilhelmus Luxemburg (1929-2018) 111;1107
48. Nikolai Chernov (1956-2014) 111;1859
49. Manfredo P. doCarmo (1928-2018) 110;3685
50. Peter M. Gruber (1941-2017) 107;1867
51. Thomas M. Liggett (1944-2020) 106;3918
52. Ronald K. Getoor (1929-2017) 106;1850
53. Richard V. Kadison (1925-2018) 105;3633
54. Elliott Ward Cheney, Jr. (1929-2016) 105;1642
55. Ernest A. Michael (1925-2013) 102;2845
56. Vera Pless (1931-2020) 101;2248
57. Victor L. Shapiro (1924-2013) 99;239
58. Herman Rubin (1926-2018) 99;498
59. Isadore M. Singer (1924-2021) 96;5215
60. John T. Tate (1925-2019) 95;5626
61. Maurice H. Heins (1915-2015) 93;401
62. Edward Odell (1947-2013) 92;1337
63. Bjarni Jonsson (1920-2016) 90;1632
64. Junichi Igusa (1924-2013) 89;1610
65. Mary Ellen Rudin (1924-2013) 87;791
66. Tom M. Apostol (1923-2016) 87;2886
67. Lee Lorch (1915-2014) 86;272
68. Clifford John Earle, Jr. (1935-2017) 84;1507
69. Walter Craig (1953-2019) 84;2084
70. Cathleen Synge Morawetz (1923-2017) 82;1295

71. Edward G. Effros (1935-2019) 82;3484
72. Richard Pollack (1935-2018) 81;1658
73. Heini Halberstam (1926-2014) 81;1086
74. Charles J. Stone (1936-2019) 79;2604
75. Joseph F. Traub (1932-2015) 78;1509
76. Colin J. Bushnell (1947-2021) 77;1624
77. Komaravolu Chandrasekharan (1920-2017) 75;778
78. Jacques Jean-Pierre Neveu (1932-2016) 74;1172
79. Robert R. Phelps (1926-2013) 71;2519
80. Pierre E. Conner, Jr. (1932-2018) 71;1118
81. Lloyd Stowell Shapley (1923-2016) 70;4107
82. Elwyn Berlekamp (1940-2019) 70;1550
83. Conjeeveram Srirangachari Seshadri (1932-2020) 69;1726
84. Samuel Gitler (1933-2014) 67;560
85. William A. Veech (1938-2016) 66;1891
86. Rudolf Kalman (1930-2016) 66;1826
87. Jane Cronin Scanlon (1922-2018) 66;206
88. Alan Baker (1939-2018) 65;1596
89. Edward Nelson (1932-2014) 64;2035
90. Albert Nijenhuis (1926-2015) 61;1054
91. Joyce R. McLaughlin (1939-2017) 61;914
92. Walter Noll (1925-2017) 59;1601
93. Edward Fadell (1926-2018) 59;1065
94. EdgarH Brown (1926-2021) 58;586
95. Isaac Namioka (1928-2019) 57;1183

96. Tim D. Cochran (1955-2014) 57;1265
97. Donald L. Burkholder (1927-2013) 57;2165
98. Steven M. Zucker (1949-2019) 55;756
99. Robert T. Seeley (1932-2016) 53;1510
100. Oscar E. Lanford, III (1940-2013) 50;734
101. Robert M. Miura (1938-2018) 49;1370
102. Richard L. Bishop (1931-2019) 49;1173
103. John Roe (1959-2018) 48;2116
104. Aldridge Bousfield (1941-2020) 48;2563
105. Clarence W. Wilkerson, Jr. (1944-2019) 47;749
106. Roy Adler (1931-2016) 47;1231
107. Richard D. Schafer (1918-2014) 46;712
108. Ray Kunze (1928-2014) 46;452
109. David Goss (1952-2017) 46;882
110. Harold M. Edwards (1936-2020) 46;542
111. David Cantor (1935-2012) 45;451
112. Louis Howard (1929-2015) 42;275
113. Paul Chernoff (1942-2017) 42;658
114. Robert Ellis (1926-2013) 41;978
115. Lynne H. Walling (1958-2021) 40;101
116. Maurice Sion (1927-2018) 39;525
117. Stephen A. Mitchell (1951-2017) 39;366
118. Aderemi Oluyomi Kuku (1941-2022) 39;121
119. Paul J. Sally, Jr. (1933-2013) 37;281
120. John C. Moore (1923-2016) 37;1254

121. Steve Armentrout (1930-2020) 37;145
122. Howard Osborn (1928-2019) 36;52
123. William Bade (1924-2012) 35;426
124. Henry Wente (1936-2020) 34;526
125. Kenneth I. Gross (1938-2017) 34;181
126. Charles C. Sims (1937-2017) 33;503
127. John Hempel (1935-2022) 31;1211
128. Donald Babbitt (1936-2020) 31;161
129. Kenneth I. Appel (1932-2013) 31;873
130. Lesley M. Sibner (1934-2013) 29;157
131. John F. Nash, Jr. (1928-2015) 29;3185
132. Solomon Feferman (1928-2016) 29;1146
133. John H. Walter (1927-2021) 27;214
134. Alphonse T. Vasquez (1938-2021) 27;133
135. J. Michael Boardman (1938-2021) 26;781
136. Samuel M. Rankin, III (1945-2020) 25;145
137. Thomas Nevins (1972-2020) 24;173
138. Myles Tierney (1937-2017) 23;428
139. Robert J. Blattner (1931-2015) 23;336
140. James M. Kister (1930-2018) 19;142
141. Arthur Herbert Copeland (1926-2019) 19;41
142. Lynn Arthur Steen (1941-2015) 18;341
143. Arthur P. Mattuck (1930-2021) 17;152
144. Carole B. Lacampagne (1933-2021) 11;12
145. Lida K. Barrett (1927-2021) 5;2

Appendix III: Ranking the AMS Fellows who died before Aug. 2022 According to Decreasing Number of Citations

1. Elias M. Stein (1931-2018) 237;27492
2. Louis Nirenberg (1925-2020) 175;17621
3. Lars Hormander (1931-2012) 159;15121
4. Sir Michael Atiyah (1929-2019) 269;12281
5. Andrew J. Majda (1949-2021) 323;11987
6. Jonathan Michael Borwein (1951-2016) 453;9810
7. Guido Weiss (1928-2021) 114;8722
8. Andrei V. Zelevinsky (1953-2013) 113;8482
9. Ronald Graham (1935-2020) 363;7500
10. Hans Weinberger (1928-2017) 115;6664
11. Anatole Katok (1944-2018) 122;6030
12. Jim Douglas, Jr. (1927-2016) 180;5937
13. John T. Tate (1925-2019) 95;5626
14. Isadore M. Singer (1924-2021) 96;5215
15. Richard Askey (1933-2019) 163;4802
16. Harry Kesten (1931-2016) 193;4772
17. Felix E. Browder (1927-2016) 200;4743
18. Robert Strichartz (1943-2021) 189;4633
19. Peter Duren (1935-2020) 126;4490
20. Bertram Kostant (1928-2017) 114;4367
21. Lloyd Stowell Shapley (1923-2016) 70;4107
22. Joel A. Smoller (1935-2017) 181;4096
23. George R. Sell (1937-2015) 132;4068

24. Harold Widom (1932-2021) 167;4066
25. Vaughan F. R. Jones (1952-2020) 117;3924
26. Thomas M. Liggett (1944-2020) 106;3918
27. Branko Grunbaum (1929-2018) 271;3814
28. Ronald G. Douglas (1938-2018) 168;3732
29. Manfredo P. doCarmo (1928-2018) 110;3685
30. Joseph B. Keller (1923-2016) 321;3655
31. Richard V. Kadison (1925-2018) 105;3633
32. Paul Fife (1930-2014) 118;3509
33. Edward G. Effros (1935-2019) 82;3484
34. John F. Nash, Jr. (1928-2015) 29;3185
35. Robin Thomas (1962-2020) 122;2898
36. Tom M. Apostol (1923-2016) 87;2886
37. Eugene B. Dynkin (1924-2014) 222;2851
38. Ernest A. Michael (1925-2013) 102;2845
39. Richard M. Dudley (1938-2020) 138;2776
40. Jan C. Willems (1939-2013) 186;2677
41. Jean-Pierre Kahane (1926-2017) 288;2639
42. Charles J. Stone (1936-2019) 79;2604
43. Aldridge Bousfield (1941-2020) 48;2563
44. Robert R. Phelps (1926-2013) 71;2519
45. Veeravalli S. Varadarajan (1937-2019) 149;2336
46. Vera Pless (1931-2020) 101;2248
47. Donald L. Burkholder (1927-2013) 57;2165
48. Lawrence Shepp (1936-2013) 175;2137

49. Murray Rosenblatt (1926-2019) 178;2128
50. John Roe (1959-2018) 48;2116
51. Andras Hajnal (1931-2016) 164;2116
52. Shreeram Abhyankar (1930-2012) 190;2111
53. Walter Craig (1953-2019) 84;2084
54. Edward Nelson (1932-2014) 64;2035
55. Gilbert Baumslag (1933-2014) 166;1937
56. William A. Veech (1938-2016) 66;1891
57. Peter M. Gruber (1941-2017) 107;1867
58. Nikolai Chernov (1956-2014) 111;1859
59. Ronald K. Getoor (1929-2017) 106;1850
60. Rudolf Kalman (1930-2016) 66;1826
61. Frederick R. Cohen (1946-2022) 136;1781
62. W. Wistar Comfort (1933-2016) 153;1746
63. Conjeeveram Srirangachari Seshadri (1932-2020) 69;1726
64. Georgia Benkart (1949-2022) 133;1692
65. Richard Pollack (1935-2018) 81;1658
66. Elliott Ward Cheney, Jr. (1929-2016) 105;1642
67. Bjarni Jonsson (1920-2016) 90;1632
68. Colin J. Bushnell (1947-2021) 77;1624
69. Junichi Igusa (1924-2013) 89;1610
70. Walter Noll (1925-2017) 59;1601
71. Alan Baker (1939-2018) 65;1596
72. Elwyn Berlekamp (1940-2019) 70;1550
73. Robert T. Seeley (1932-2016) 53;1510

74. Joseph F. Traub (1932-2015) 78;1509
75. Clifford John Earle, Jr. (1935-2017) 84;1507
76. Solomon Golomb (1932-2016) 146;1497
77. Robert M. Miura (1938-2018) 49;1370
78. Edward Odell (1947-2013) 92;1337
79. Vladimir F. Demyanov (1938-2014) 183;1309
80. Cathleen Synge Morawetz (1923-2017) 82;1295
81. Mark Mahowald (1931-2013) 164;1281
82. Tim D. Cochran (1955-2014) 57;1265
83. John C. Moore (1923-2016) 37;1254
84. Roy Adler (1931-2016) 47;1231
85. John Hempel (1935-2022) 31;1211
86. Isaac Namioka (1928-2019) 57;1183
87. Richard L. Bishop (1931-2019) 49;1173
88. Jacques Jean-Pierre Neveu (1932-2016) 74;1172
89. Solomon Feferman (1928-2016) 29;1146
90. Sibe Mardesic (1927-2016) 159;1130
91. Pierre E. Conner, jr. (1932-2018) 71;1118
92. Wilhelmus Luxemburg (1929-2018) 111;1107
93. Heini Halberstam (1926-2014) 81;1086
94. Edward Fadell (1926-2018) 59;1065
95. Albert Nijenhuis (1926-2015) 61;1054
96. Robert Ellis (1926-2013) 41;978
97. Joyce R. McLaughlin (1939-2017) 61;914
98. David Goss (1952-2017) 46;882

99. Kenneth I. Appel (1932-2013) 31;873
100. Mary Ellen Rudin (1924-2013) 87;791
101. J. Michael Boardman (1938-2021) 26;781
102. Komaravolu Chandrasekharan (1920-2017) 75;778
103. Steven M. Zucker (1949-2019) 55;756
104. Clarence W. Wilkerson, Jr. (1944-2019) 47;749
105. Oscar E. Lanford, III (1940-2013) 50;734
106. Richard D. Schafer (1918-2014) 46;712
107. Harvey Cohn (1923-2014) 118;664
108. Paul Chernoff (1942-2017) 42;658
109. Edgar H. Brown (1926-2021) 58;586
110. Samuel Gitler (1933-2014) 67;560
111. Harold M. Edwards (1936-2020) 46;542
112. Henry Wente (1936-2020) 34;526
113. Maurice Sion (1927-2018) 39;525
114. Charles C. Sims (1937-2017) 33;503
115. Herman Rubin (1926-2018) 99;498
116. Ray Kunze (1928-2014) 46;452
117. David Cantor (1935-2012) 45;451
118. Myles Tierney (1937-2017) 23;428
119. William Bade (1924-2012) 35;426
120. Maurice H. Heins (1915-2015) 93;401
121. Donald A. S. Fraser (1925-2020) 182;400
122. Stephen A. Mitchell (1951-2017) 39;366
123. Lynn Arthur Steen (1941-2015) 18;341

124. Robert J. Blattner (1931-2015) 23;336
125. Paul J. Sally, Jr. (1933-2013) 37;281
126. Louis Howard (1929-2015) 42;275
127. Lee Lorch (1915-2014) 86;272
128. Victor L. Shapiro (1924-2013) 99;239
129. John H. Walter (1927-2021) 27;214
130. Jane Cronin Scanlon (1922-2018) 66;206
131. Kenneth I. Gross (1938-2017) 34;181
132. Thomas Nevins (1972-2020) 24;173
133. Donald Babbitt (1936-2020) 31;161
134. Lesley M. Sibner (1934-2013) 29;157
135. Arthur P. Mattuck (1930-2021) 17;152
136. Samuel M. Rankin, III (1945-2020) 25;145
137. Steve Armentrout (1930-2020) 37;145
138. James M. Kister (1930-2018) 19;142
139. Alphonse T. Vasquez (1938-2021) 27;133
140. Aderemi Oluyomi Kuku (1941-2022) 39;121
141. Lynne H. Walling (1958-2021) 40;101
142. Howard Osborn (1928-2019) 36;52
143. Arthur Herbert Copeland (1926-2019) 19;41
144. Carole B. Lacampagne (1933-2021) 11;12
145. Lida K. Barrett (1927-2021) 5;2

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