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Recollections of Leonard Carlitz

by

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1. Joel V. Brawley ([1])**.** While I had heard about the amazing mathematical productivity of Leonard Carlitz and had read a few of his papers during my graduate student days in the early 1960's at NCSU (North Carolina State University), I first met him in December of 1964 when I was invited, partly through his efforts, to give a colloquium lecture at Duke University. I had just finished my PhD at NCSU a few months earlier under Jack Levine and was doing research and teaching at NCSU as an instructor prior to moving to Clemson University in 1965.

Before that December meeting, Carlitz and I had had a few written communications, but I did not meet him until shortly before my talk. He was nearly fifty-seven years old at the time, had published or had had accepted nearly 500 research papers and had just been named "James B. Duke Professor of Mathematics", a very prestigious, chaired position at the university. I was a new PhD with one accepted publication, so I was somewhat anxious about meeting this mathematical giant; however, I remember being immediately relaxed by his quiet, kind and gentle nature and I very much appreciated the way he put me at ease.

During my talk I made a certain conjecture about irreducible reciprocal polynomials over finite fields, a result which Levine and I had discovered experimentally but had been unable to prove. I returned that evening to Raleigh (25 miles from Durham) and three days later, I received in the mail a neatly typed paper [4] in which Carlitz had not only established the conjecture but had proved a generalization of it. I was amazed by this feat but came to realize that occurrences like this were quite common for him.

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([1]) In 1995 while Carlitz was still alive, I had the pleasure of writing an article [1] dedicated to him and surveying his finite field research. Then in 1999, I wrote his obituary [2]. A few of the accounts I give in this article were first reported in those earlier articles but others are new.

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During my early years at Clemson, Carlitz and I did not have much contact except when we would occasionally see each other at professional meetings; but that started to change after he accepted my invitation to speak at Clemson in 1969. His colloquium talk to the Clemson department was a beautiful survey talk on "Permutation Polynomials over Finite Fields", much of which had been done by Carlitz or his students. His talk inspired me to want to spend my upcoming 1971–72 sabbatical leave near Durham and we discussed it during my visit. Mrs. Carlitz, who was a petite, kind and gentle lady, accompanied him on his visit to Clemson and my wife and I hosted a party in our home in their honor.

For the 1971–72 academic year I was able to obtain a half-time teaching position at NCSU, so in August of 1971 I moved my wife and three children to Raleigh. It was during that year that I got to know Dr. Carlitz and also Mrs. Carlitz much better.

While I would spend most of my week in Raleigh, every Tuesday I would make the 25-mile drive to Durham to visit Dr. Carlitz. My Tuesday office was the Duke mathematics department library, which was located only a few steps from Carlitz's office. He and I would meet for a while soon after I arrived on campus, and I would spend the rest of the day working in the library with brief visits to his office or he to mine. He was never too busy for me. Theresa Vaughan (who was his student at the time and unfortunately passed away in June of 2009) told me that he was always accessible to his students and to anyone who wanted to talk to him.

His office was a very interesting place. At first glance, one might think the office was in disarray, but he seemed to know where everything was located. It was a fairly large office and the walls were lined with shelves containing, for example, mathematical books, lecture notes, copies of his numerous reprints, and many manila folders containing his handwritten versions and preprints of his papers. A picture (circa 1964) of Carlitz in his office and seated in front of his desk can be found in [5].

His desk was also quite interesting. Its top contained a bell-shaped mass resembling the 3-dimensional graph of a bivariate normal distribution. The main objects making up this mass were hand-written and typed papers, many of which were done on inexpensive yellow, canary-colored paper. There was no place on the desk to work. Carlitz did his writing on the small, pullout shelves of the desk. The desktop was for storage.

I remember one time I went to his office to ask him if he had ever seen a derivation of a certain counting formula that was needed for a paper we were working on. After hearing my question, he stood up, walked about a fourth of the way around the desk, lifted several of the yellow canary papers, pulled a paper from under the lifted papers and said, "I believe you'll find

the formula here". It was a hand-written derivation he had done on an earlier occasion and was exactly what was needed.

He was a great person with whom to collaborate. In addition to having "short order" formulas in his bivariate normal pile, he had an amazing store of mathematical knowledge and great recall. For example, when I would ask him a question of the form, "Have you ever seen a result such as {——}", he would sometimes respond, "Oh, I believe you will find that in {——}", citing author, journal, and year (and the spot was invariably right). On other occasions when I would ask such a question, he would walk to the exact spot where the journal was located in the library, pull the precise volume down from the shelf, and quickly open it to the appropriate page.

One of his great strengths as a mathematician was his incredible feel for technical manipulations. I remember one particular time in the library I was trying to obtain an enumeration formula (relative to our joint paper [3]) and had derived a recurrence in four variables together with initial conditions, but I had no idea how to get a closed form solution. I showed the recurrence to Dr. Carlitz when he came by the library to see me on returning from his lunch. He took the recurrence with him to his office and in ten or so minutes he returned and handed me a piece of yellow canary paper saying, "I think this formula will work." I checked the expression (taking I am sure more than 10 minutes to do so) and he was absolutely correct. Hoping to get some insights that I could apply in the future, I asked him, "How did you solve that recurrence?", to which he replied, "Oh, I just have some experience in these kinds of matters." I still have no idea how he solved the recurrence, but I do think had he had some reasonably explainable procedure, he would have shared it with me.

Several of his students have described to me their idea of how Carlitz wrote some of his papers. He would read a journal paper of interest to him and get an idea of how to improve or generalize it. Then he would produce a neatly written paper (a seemingly quite easy task for him) and hand it to his secretary to type and send to a journal. Sometimes all of this would be done in a single day. He was not known for his detailed proofing of his papers but instead focused on the main thread of the work.

During the 1971–72 years, my wife and I were invited to his home on the edge of the Duke campus. He and Mrs. Carlitz were hosting a dinner party for us and several other couples in the Duke mathematics department. In contrast to the appearance of his office, his home was always neat and tidy, thanks to Mrs. Carlitz. She was a great host and a gracious lady who loved houseplants and had many inside their home.

They both loved and spent a lot of their time in a glass-enclosed room on the back of their house overlooking a beautiful, naturally forested area. Much of Dr. Carlitz's research at home was done in that room.

In the years after his retirement in 1977, I visited Dr. and Mrs. Carlitz in their home a number of times to discuss joint research projects. We always sat in the glass-enclosed room, and I always found the home neat, tidy and immaculately kept. Mrs. Carlitz died in 1990 and Dr. Carlitz lived in their home for nine more years. The home was neat the several times I visited him after Mrs. Carlitz's death, but not to the extent that it was while she was living. His caretakers did not take pride in the home as he and Mrs. Carlitz did.

One of my visits to the Carlitz home after Mrs. Carlitz's death occurred in the fall of 1991 when Theresa Vaughan, Drew Long, and I went there to collect information for the Collected Works project headed by John Brillhart. Carlitz was nearly 84 at the time.

One thing we wanted to find out from him on that visit was what he viewed as his most significant research. We tried to find this out with a few differently posed questions, but were having little success getting the kind of response we wanted. Carlitz was a modest man who did not seem to want to make judgments on his own research. When I mentioned his large number of publications he replied, "Of course many of them were slight." I retorted, "But many of them were very solid." to which he replied simply, "Let's hope so."

Finally, I asked him, "Well of all the research papers you've written, of which ones are you the proudest?" He rose from his chair and walked out of the room to find his list of publications ([2]), and after a few minutes he returned with the list, sat back down, and started perusing it. After a not so brief pause, he said "I liked numbers 3 and 5 pretty well." Then after another pause, "I also liked number 11," and then maybe ten seconds later he said, "13 was pretty good and perhaps 16 and 18."

He called out a few more numbers, but we soon moved the conversation to a less time-consuming topic realizing, with a list of some 770 papers, his complete answer would have required hours and was still not what we wanted. It was clear to us that he was content to let history be his judge. For him, the joy of discovery seemed enough.

My wife and I visited him at his home in 1996 when he was nearing 89. He had earlier broken his hip (a second time), but he had relearned to walk and was walking in his home with the aid of a walker. As usual he was very pleased to see us, and he still had that wonderful smile, but naturally, he was becoming more forgetful and beginning to repeat himself. One of the purposes of our visit was for me to personally take him copies of the two

([2]) His personal list was compiled by secretaries and was ordered differently from the bibliography compiled by John Brillhart that accompanies these Recollections. Also, Carlitz's list contained duplications and missing entries.

issues [5, 6] of *Finite Fields and their Applications* that were dedicated to him. He had not seen them before that visit.

As we visited, I sensed that he probably would not be reading much in the two journals, so I asked him if he'd like for me to read aloud to him my dedication article that was the lead article in [5]. He said that he would like that very much, so I read to him most of the article, emphasizing the things I thought would make him proudest. Through that reading I was able one last time to express to him my appreciation and admiration. The twinkle in his eyes and his wonderful smile let me know that he was also appreciative. That was the last time I ever saw him.

In June of 1999, when he needed more attention than he could receive from his caregivers at home, he was moved to a nursing home in Pittsburgh near his son Robert and his family.

Leonard's death on September 17, 1999 came quickly and peacefully. He was taken to the hospital with pneumonia on Wednesday, September 15, slept all day Thursday, and died Friday morning just after midnight.

Leonard Carlitz was a great and gentle man with deep mathematical insights who left us a remarkable legacy not only through his research but also through his students and the many associates whose lives he touched. He is greatly missed by his family, his friends, and his colleagues throughout the mathematical world.

References

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[4] L. Carlitz, *Some theorems on irreducible reciprocal polynomials over a finite field*, J. Reine Angew. Math. 227 (1967), 212–220.
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2. John Brillhart. As a graduate student at U. C. Berkeley in the late 1950's and early 1960's I was familiar with the name "Leonard Carlitz" from his contributions and solutions to problems in the current mathematical journals as they came out and were displayed in the departmental library. The two jounals I especially liked were the MAA Monthly and the Duke Mathematical Journal, the latter being edited by Carlitz. Another was a local journal, begun in 1963 by a group of mathematicians in the San Francisco bay area who were given to an almost excessive zeal for all things "Fibonacci", the Fibonacci Quarterly.

At the time, their enthusiasm seemed to me like that of the Pythagorean Brotherhood crossed with that of the Junior Chamber of Commerce. I liked all the founders whom I got to know from their meetings, especially Brother Alfred at St. Mary's College and Vern Hoggatt at San Jose State. Carlitz was also an editor of this journal and was very supportive of their efforts. His presence there also contributed to improving the quality of this journal.

At about that time, August 1963, there was to be a remarkable three weeks meeting of prominent mathematicians at the University of Colorado at Boulder. D. H. Lehmer suggested that Ron Graham and I, both his students at Berkeley, attend the meeting, which we did. I think the meeting was important for both of us; certainly it was for me because many of the attendees lived in the dormitory where the talks were given and I became well acquainted with many of them due to this informal atmosphere. Among these people I had the pleasure of first meeting Carlitz and getting to know him.

There were no parallel sessions at the meeting so one could go to all the talks, which I did, and which Carlitz did also. He often participated during the question period following a talk by asking the speaker, "I wonder if you have considered...?". When the speaker said he hadn't, Carlitz went on to amplify his question and give references.

Carlitz also gave four talks at the meeting and I attended them all. I found his lecturing style quite agreeable, as were his topics. He spoke simply and clearly in a soft Southern accent; he also used no notes, the formulas coming naturally onto the board as he lectured.

I was particularly interested in one talk in which he posed the question of whether the fifth Euler polynomial was the only Euler polynomial with a multiple root [11, Problem 9, p. 91]. Actually, I had come to the meeting with the hope of finding such a problem to which I might be able to apply the idea I had, viz., that a polynomial with integer coefficients and an odd discriminant would not have a multiple root. This seemed to be such a problem.

When I returned to Berkeley after the meeting, I examined his question with a simple algorithm I had written for computing a discriminant mod 2. I found to my surprise that all even degree Euler polynomials had odd discriminants and thus had no multiple roots. I sent my arguments to Carlitz who promptly replied in quite a nice way, thanking me for my letter.

Settling the odd degree case proved to be more complicated, since the fifth Euler polynomial did have a multiple root. But with a little effort the mod 2 approach settled this case as well. In the process, Carlitz had sent me information about how the cyclotomic polynomial factors modulo a prime. It was certainly pleasant to have a real authority to whom I could ask questions.

I next turned to the odd degree Bernoulli polynomials to see if the mod 2 approach would work on these as well. It did. Before I had sent this result to Carlitz, however, he wrote to say he would be at the American Mathematical Society meeting at Cal Tech in Pasadena on November 21–23, 1963. I decided to go to the meeting and wrote I would see him there and show him the results I had gotten on the Bernoulli polynomials.

At the meeting we discussed what I had done. He said it was all right, even though I had my doubts about some of the things I had done since I was inexperienced with polynomial matters over finite fields. Certainly the best way to learn something is to need it... and then learn it from a real expert. It was easy to see why he had had 45 PhD students, the women among them being especially comfortable with him, a friendly and informal man with Southern charm and a tremendous mathematical depth.

At this point, however, the meeting was thrown into a complete turmoil; for during a lecture in the large auditorium, a man came running in the back door shouting "PRESIDENT KENNEDY HAS JUST BEEN SHOT!!" People leaped up and rushed out into the hall. Groups of excited people were clustered around the open doors of some offices listening to radio reports from Dallas. The uproar gradually subsided and the meeting continued and concluded somehow. I really don't remember it.

I continued to work on the Euler and Bernoulli research for a while and then turned to another topic on which Carlitz and I worked together. (Later my work on the Euler and Bernoulli polynomials became my thesis [7].) This topic had to do with what Carlitz later called the "Rudin–Shapiro polynomials". We soon published a joint paper on this topic [8], this paper turning out to be the only paper we published together. After that I finished my degree and got a job at the University of Arizona, where I worked with various other people.

Mathematicians are sometimes seen as problem solvers or system builders. The first type loves problems and finding their solutions while the other type, having an architectural sense. spend their efforts developing and building large or general structures. Certainly Carlitz was the first type; he was amazingly good at seizing a problem and dispatching it.

I recall at one meeting I mentioned a conjecture I had. He immediately started giving the solution since the "world" of the problem was one he was quite familiar with. The impression I got of the emergence of this solution was of a shirt coming continuously and unhesitatingly out of the wringer of an old-fashioned washing machine. Evidently he saw the entire solution and was merely outputting it smoothly in order. Rather remarkable.

I think I should say something about the experience of working on mathematics with Carlitz. By mail one would expect a reply in a few days. (I wonder what would have happened if we had had e-mail at that time?)

For example, Albert Whiteman once told me that three days after he had written to Carlitz about a problem, he received a 15-page manuscript that significantly advanced the mathematical purview of the subject. This should actually come as no surprise considering the huge amount of mathematics he produced in his lifetime.

In 1973 and 1974 his letters became very dark. He was deeply disturbed by two members of the mathematics department who were making an effort to take over the editorship of the Duke Journal by appealing to the president at Duke. Of course, Carlitz and the other editors had managed the journal for some 35 years independent of the Duke administration, and now the professors were putting pressure on the administration to turn over the control of the journal to them, presumably to "improve" the quality of the journal.

They succeeded and this had a devastating effect on Carlitz who immediately resigned as an editor in protest. And so it was that the charming Duke Mathematical Journal, that I and so many other people were fond of, ended its long and successful life. A very different, "improved" research journal appeared in its place.

Carlitz was deeply injured by this treatment of him and became embittered toward Duke University for the rest of his life. It still pains me to think of the university treating this dedicated and remarkably creative man in this way.

In the middle of the 1980's I wrote to Carlitz raising the question of publishing his collected works. He responded favorably as did his family who were pleased with the prospect of his being busy with an enterprise dear to his heart. I then wrote to him that I thought it was important to get a complete and accurate bibliography before doing anything else. As it happened, this project ended up taking a year to complete, even with the collaboration of the editors. For example, Henry Gould, a remarkable person whom Carlitz referred to as a "philomath", sent me a copy of a card file he kept of Carlitz's papers. This file was invaluable in showing that these papers actually existed and where they could be found. Paul Bateman, Joel Brawley, Albert Whiteman, and a few others also sent me reprints and I used them for the same purposes. There was also a great deal of cross-checking with the references in Carlitz's papers themselves.

Carlitz sent me a collection of reprints as well and a copy of a bibliography that had been kept by others such as his secretary and certain of his graduate students who were in charge of his *reprint room* that was filled with stacks of hundreds of reprints. (The final count on his published papers is now 771 and there is one unpublished, 15 page manuscript "Mock zeta functions" which still needs to be published.) Since this huge number of papers is in more than 100 journals, it actually needed an archivist to maintain

properly. It was incomplete and somewhat in a jumble with duplications. A real challenge to get on top of.

Actually, I enjoyed the challenge of finding all his papers and getting accurate references. It was helpful that he himself always wrote out the complete name of a journal, thus automatically avoiding confusion between journals with very similar names and abbreviations that he published in.

He also sent me an initial set of categories for his papers which gave a framework in which to work. It also reflected how he thought about the topical relationships in his mathematical world and explained why he published so much. Regarding this, in my own mind I envisioned a complicated aparatus consisting of small metal trays hanging from a collection of weighing arms, each tray representing a category. In the middle of this aparatus was Carlitz scattering sand around (the sand being his papers) that fell variously onto the trays, weighing them down.

He had so many ideas in so many directions as he went along, especially as a continuation of some published article or talk, that he just wanted to get them worked out and published. Later he could add to them when he extended a topic in a new direction and the various topics grew in parallel.

Ultimately the bibliography was done and I had collected a complete set of the papers themselves and could check the list directly against them. Carlitz had suggested a certain group of people as associate editors and all of them had been pleased to help in making the bibliography, refining the categories, and deciding what category to put each paper into. This latter decision was not always clear since a paper might reasonably be listed in either or both categories; but we stuck to putting each paper in just one category, leaving any further refinements to possible later work.

It was very helpful to have this final list and be able to answer questions readily about the papers. One such use of the list was made to satisfy a request of Gary Mullen, the Editor-in-Chief of the new journal "Finite Fields and Their Applications" and one of Carlitz's mathematical grandsons. His plan was to have the second and third issues of the new journal dedicated to Carlitz [9], and he asked if we could provide him with a list of his papers on finite fields. This was trivial to do since this was one of the categories that Carlitz had originally suggested [9, no. 2, 145–151].

I should also mention that Dinesh Thakur and David Hayes, one of Leonard's students, played an important part in developing some of the Carlitz material for publication in the new journal [9, no. 2, 152–164]. (Also see the latter's obituary of Carlitz [10], where Carlitz's 45 PhD students and their thesis titles are given.)

This development was in 1995 when Carlitz was still alive, and he very much appreciated the recognition that this publication brought to him and

his work. I also think this helped to reduce some of his isolation and the bitterness he felt towards Duke.

My final thought and hope are that at some time in the future Duke University will organize a celebration of the life and accomplishments of Leonard Carlitz, their late, extraordinary James B. Duke professor of mathematics. I think the mathematical world would heartily applaud this and join into the celebrations of such an event.

References

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3. Henry W. Gould. Leonard Carlitz was a remarkable man. He was a modest, kind, and gentle man, totally ethical, vastly knowledgeable in the literature of his subject, enormously energetic, and unstintingly generous and helpful to his students. He was amazingly prolific with over 770 publications.

I first began reading journal articles by Leonard Carlitz in 1947 when I was an undergraduate. I had begun to study series and special number sequences in high school in 1945, and was amazed at what Carlitz was doing in these areas. I determined to learn from him and in 1951 or 1952 I sent him a letter with examples of identities and conjectures I had worked out. He responded graciously, somewhat in the manner that G. H. Hardy had responded to Ramanujan, expressing his great pleasure at my interest in mathematics, telling me some of my results were new but that many were already known, and inviting me to visit him at Duke Univeristy to discuss these things.

Thus I made a bus trip from Charlottesville, Va. to Duke for a week to meet him. That was how he came to be my mentor for the next many decades.

Over some years I observed Carlitz at work whenever I visited. His office door seemed to be frequently open for students to come and discuss ideas, and he would often roam about the mathematics reading room talking to students about their work. Yet he found time to go to concerts and basketball

games. His desk was piled two feet high with manuscripts, yet he could find one immediately.

Leonard Carlitz had a vast knowledge of the literature in his areas of interest. I recall an occasion when I asked him about a long paper by Gegenbauer published in the 1800's, and he replied that, yes, that was where Gegenbauer gave some 85 formulas for some function or other, and I knew Carlitz was correct because I had read the paper myself. He could lead me to the library, and without checking any book or paper, pull out journals to show me certain papers.

Carlitz and I exchanged many dozens of letters over the years and we talked frequently by telephone about mathematics.

The remarkable ability of Carlitz to write a paper without having to revise needs to be noted. This I think is the principal reason he was able to publish over twenty papers a year for decades. For some years he had the excellent typing service of Jane Culver who would type from his handwritten manuscripts. Leonard sometimes sent me an original manuscript which never differed from the published result. He seemed to be possessed of that rare skill to set down ideas and formulas which were correct the first time. Just after the end of World War II Carlitz had 45 papers in print in one year.

Dr. Carlitz was enormously generous and helpful to students. I remember a student asked him for help with a paper he was writing and Carlitz gave him some hints, and this went on for a couple of weeks until Carlitz indicated that now the student had enough material to make a nice paper. The student wrote the paper with the byline stating "by L. Carlitz and Joe Jones". Carlitz sent the paper to an editor, and in due time the paper was published "by Joe Jones".

I know that I am indebted to Carlitz for many hints, lemmas and simplifications of tedious proofs in my own work.

Leonard was very active physically. Although 20 years my senior he could easily outwalk me. At a conference in Virginia Polytechnic Institute in 1974, Carlitz was the oldest participant but certainly was as alert and keen as anyone there half his age or less.

Carlitz was a man of principle, adamantly refusing to be bullied by any unethical dealings or arrogant incompetence. I remember once when he visited me at West Virginia University we were sitting in the office of a certain administrator. Carlitz was annoyed and whispered in my ear, "Get me out of here; this man is insane." We quietly and graciously made our exit.

The most exasperating event that ever upset Leonard Carlitz was in 1974 when the editor of the Duke Mathematical Journal was replaced and a new editor oppointed in a way that Carlitz felt was inappropriate. This intrusion from outside the Journal was a radical change since, from the founding in 1935 any changes in the management of the Journal had been instituted by

the editors themselves. Carlitz, who had been an editor for 35 years, was opposed to this treatment of the Journal and felt that he had been assured that this change would not be made. He was very upset, and resigned as an editor in protest.

Finally, a personal note. When I was married in 1969, Leonard and Clara Carlitz gave us a wedding present which has always had a distinctive and useful function in my home. Such was the friendship of this wonderful man and mentor.

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The publications of Leonard Carlitz

Introduction. In preparing for the publication of the "Collected Papers of Leonard Carlitz", Professor Carlitz suggested the following mathematicians who agreed to help in the editorial work (an asterisk here indicates *deceased*): Waleed Al-Salam*, University of Alberta; Joel V. Brawley, Clemson University; John Brillhart (main editor), University of Arizona; Henry W. Gould, West Virginia University; David Hayes*, University of Massachusettes; Basil Gordon*, UCLA; Theresa P. Vaughan*, University of North Carolina; Albert Leon Whiteman*, University of Southern California.

The first task of the editors was to produce an accurate bibliography from the somewhat disorderly and incomplete publication records that had been kept by graduate assistants and secretarial help. This was a quite pleasant job of collecting reprints and information from various sources that lasted about a year. When it was finished the total count was 771 published papers, and later another publication of a chapter of his class notes (772) which was published and dedicated to Carlitz fortunately during his lifetime, and an unpublished manuscript (773). Each reference was ultimately verified by examining the published paper itself.

It was felt by the editors that it might be a worthwhile, though a somewhat difficult job, to separate the 771 papers into subcollections by topic and Professor Carlitz agreed. He thus gave us an initial collection of categories from which we ultimately came up with the 15 categories listed below.

Although many of the papers could have been listed in more than one category, we decided it would be much simpler to list each paper in just one category, introducing subcategories in some cases. Thus, a capital letter for the assigned category is part of the title of each paper in the bibliography, with a subcategroy indicated following the letter. The number of papers in each category or subcategory is indicated by a number in parentheses, while parentheses surrounding several paper numbers within a category indicates the papers are related in some way.

We have carried this process to a certain point, but the results could easily be revised to good effect. We hope these adjuncts to the bibliography will be helpful in using this extraordinary and wonderful collection of work.

The 15 categories:

A. Algebraic numbers (18).
B. Bernoulli, Euler, Stirling numbers and polynomials (80).
C. Combinatorics (130).
D. Dedekind sums (21).
E. Eulerian numbers and polynomials (19).
F. Finite fields (92).
G. Geometric inequalities (9).
I. Rogers–Ramanujan identities (5).
K. Kummer's congruence (18).

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N. Number theory (151).
P. Polynomials and functions over finite fields (32).
R. Arithmetic properties of polynomials and power series (19).
S. Special functions (162).
X. Miscellaneous (7).
Z. Staudt–Clausen over Z (9).

The category lists

A. Algebraic numbers (18): 2, 3, 13, 64, 79, 87, 105, 116, 122, 140, 153, 162, 168, 291, 325, 334, 462, 509.

B. Bernoulli, Euler, Stirling numbers and polynomials (80): 1, 7, 33, 34, 46, 52, 59, 61, 62, 63, 68, 73, 76, 77, 85, 86, 99, 100, 101, 103, 107, 111, 120, 125, 135, 139, 143, 197, 229, 237, 242, 246, 251, 252, 259, 260, 271, 281, 292, 302, 320, 331, 336, 337, 351, 380, 387, 421, 440, 444, 449, 451, 460, 498, 499, 513, 517, 562, 569, 571, 581, 604, 636, 639, 653, 681, 684, 692, 699, 704, 733, 734, 750, 752, 754, 758, 759, 762, 763, 765.

C. Combinatorics (130): 88, 90, 104, 112, 113, 144, 157, 164, 181, 192, 289, 322, 359, 364, 373, 374, 378, 388, 396, 398, 411, 412, 426, 428, 430, 433, 436, 438, 441, 443, 448, 457, 472, 475, 476, 477, 480, 481, 484, 486, 492, 493, 494, 496, 506, 512, 529, 531, 541, 556, 559, 561, 566, 567, 568, 577, 578, 579, 580, 582, 588, 590, 591, 593, 595, 596, 598, 609, 610, 611, 612, 613, 615, 618, 620, 624, 625, 627, 629, 631, 632, 633, 637, 648, 649, 658, 661, 664, 666, 668, 669, 671, 672, 678, 679, 682, 683, 688, 696, 697, 698, 700, 702, 703, 706, 707, 708, 712, 713, 716, 719, 720, 721, 722, 723, 727, 730, 736, 737, 739, 740, 741, 745, 748, 749, 753, 755, 761, 764, 771.

C1. (a) Simon Newcomb's problem (16): 632 (expository, permutations, and sequences); 610, 620, 625, 631, 666, 679, 707, 748 (permutations); 580, 582, 609, 637, 688 (sequences); 476, 612 (permutations and sequences in one paper); **(b) Compositions (6):** 588, 682, 706, 713, 739, 740 (N.B. 588 and 713 are about partitions with restrictions on the order... which makes them like compositions.).

C2. Partitions (19): 112, 144, 164, 378, 428, 457, 481 (ordinary partitions); 472, 486, 561, 591, 664, 669 (plane partitions); 683 (set partitions); 88, 90, 104, 411, 433 (others).

C3. Permutations (10): 672 (expository); (529, 730), 629, 661, 668, 702, (723, 755, 761).

C4. Sequences (11): (492, 556, 567, 568, 595, 658), (541, 593, 697, 719, 722).

C5. Arrays (12): 181, 374, 531 (graphs); 412, 441, 443, 566, 615 (two-line arrays); 578, 633 (rectangular arrays); 596, 678 (triangular arrays).

C6. Identities, formulas, and recurrences (33): 113, 364, 388, 494, 559, 577, (396, 613) (q-identities); 157, (192, 359, 579, 598), 289, 496, 649, 703, 712, (720, 721), 745, 749, 764 (identities and formulas); (373, 627, 696, 716, 736), 480, 493, 648, 708, 727 (recurrences, etc.).

C7. (a) Brock identity and binomial coefficients (11): 430, 438, 448, 475, 484, 506, 512, 618, 671, 741, 771. **(b) Fibonacci numbers (5):** 590, 611, 698, 700, 753.

C8. Miscellaneous (7): 322, 398, 426, 436, 477, 624, 737.

D. Dedekind sums (21): 81, 93, 94, 124, 141, 179, 422, 434, 447, 502, 630, 644, 651, 667, 670, 673, 676, 726, 732, 747, 766.

E. Eulerian numbers and polynomials (19): 82, 145, 254, 279, 370, 386, 395, 414, 570, 602, 607, 646, 652, 654, 717, 718, 728, 738, 744.

F. Finite fields F (92): 20, 21, 25, 43, 51, 57, 58, 65, 66, 67, 70, 75, 78, 91, 96, 102, 106, 110, 114, 115, 119, 123, 127, 130, 131, 133, 137, 138, 146, 151, 155, 156, 166, 167, 170, 171, 177, 186, 188, 191, 194, 195, 205, 209, 219, 293, 317, 332, 335, 342, 345, 354, 357, 361, 366, 367, 382, 390, 393, 394, 437, 458, 469, 485, 491, 495, 501, 523, 524, 525, 547, 574, 599, 603, 605, 621, 623, 638, 650, 660, 662, 674, 691, 693, 694, 695, 705, 715, 757, 767, 769, 772.

F1. Exponential sums (2): 209, 757.

F2. Permutations (9): 106, 293, 342, 345, 366, 394, 574, 603, 715.

F3. Factorizations (4): 21, 25, 547, 693.

F4. Matrices over F (16): 75, (119, 123), 130, 151, 156, 167, 188, 367, 491, 605, 621, 623, 638, 662, 705.

F5. Polynomials over F (15): 20, 43, 51, 58, 65, 170, 317, 332, 393, 495, 501, 674, 694, 767, 769.

F6. Equations over F (20): 67, 91, 96. 114, 115, 127, 133, 137, 138, 146, 155, 166, 171, 186, 194, 195, 335, 458, 469, 485.

F7. Primitive roots in F (5): 57, (66, 70), 110, 131.

F8. Partitions (2): 78, 102,

F9. Correspondences in F (3): (650, 660), 695.

F10. Surfaces over F (2): 205, 219.

F11. Miscellaneous (14): 177, 191, 354, 357, 361, (382, 437), 390, 523, (524, 525), 599, 691, 772. (N.B. 772 is Chapter 19 from Carlitz's classroom notes.)

G. Geometric inequalities (9): 404, 418, 450, 479, (557, 597, 606), 572, 573.

I. Rogers–Ramanujan identities (5): 230, 238, 442, 510, 516.

K. Kummer's congruence (18): 71, 72, 83, 126, 134, 142, 150, 175, 244, 249, 257, 284, 290, 297, 298, 316, 376, 417.

N. Number theory (151): 5, 8, 9, 11, 12, 15, 16, 23, 24, 53, 55, 84, 92, 95, 97, 98, 109, 117, 118, 129, 136, 147, 152, 154, 159, 160, 169, 172, 178, 184, 187, 189, 190, 193, 199, 201, 203, 207, 215, 216, 218, 235, 236, 247, 248, 250, 255, 258, 261, 262, 264, 266, 267, 268, 269, 270, 274, 275, 276, 278, 282, 283, 286, 294, 295, 299, 300, 303, 319, 321, 327, 333, 338, 356, 368, 369, 381, 383, 397, 400, 401, 402, 403, 405, 407, 415, 420, 423, 427, 429, 431, 432, 435, 439, 445, 446, 453, 454, 461, 463, 467, 468, 470, 471, 474, 478, 483, 487, 488, 490, 503, 518, 519, 521, 527, 528, 530, 534, 540, 542, 543, 544, 549, 552, 584, 585, 586, 587, 592, 594, 600, 614, 616, 619, 626, 634, 640, 641, 642, 647, 655, 677, 701, 711, 714, 724, 731, 735, 742, 746, 768.

P. Polynomials and functions over finite fields (32): 4, 6, 10, 14, 17, 18, 19, 22, 26, 27, 28, 29, 30, 31, 32, 36, 37, 38, 39, 40, 41, 42, 44, 45, 47, 69, 180, 182, 277, 318, 379, 665.

P1. Partition problems for polynomials (11): 14, 18, 26, 29, 41, 42, 44, 45, 182, 379, 665.

P2. Cyclotomic function fields (3): 17, 28, 30.

P3. Staudt–Clausen for $GF(q,x)$ (3): 27, 32, 318.

P4. Arithmetic of polynomials (4): 4, 6, 10, 36.

P5. Miscellaneous (11): 19, 22, 31, (37, 38), 39, 40, 47, 69, 180, 277.

R. Arithmetic properties of polynomials and power series (19): 48, 50, 60, 80, 132, 149, 158, 163, 183, 220, 222, 223, 232, 239, 253, 263, 287, 350, 522.

S. Special functions (162): 54, 74, 89, 121, 148, 161, 165, 173, 176, 196, 202, 204, 206, 208, 210, 211, 212, 213, 214, 217, 221, 224, 225, 226, 227, 228, 231, 233, 234, 240, 241, 243, 245, 256, 265, 272, 273, 280, 288, 296, 301, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 323, 324, 326, 328, 329, 330, 339, 340, 341, 343, 344, 346, 347, 348, 349, 352, 353, 355, 358, 360, 362, 363, 365, 371, 372, 375, 377, 384, 385, 389, 391, 392, 399, 406, 408, 409, 410, 413, 416, 424, 425, 452, 455, 456, 459, 464, 465, 466, 473, 482, 489, 497, 500, 504, 505, 511, 514, 515, 520, 526, 533, 535, 536, 537, 538, 539, 545, 546, 548, 550, 551, 553, 554, 555, 558, 560, 563, 564, 565, 575, 583, 589, 601, 608, 617, 622, 628, 643, 645, 656, 657, 659, 663, 675, 680, 685, 686, 687, 689, 690, 709, 710, 725, 729, 743, 751, 756, 760, 770.

X. Miscellaneous (7): 108, 419, 507, 508, 532, 576, 635.

Z. Staudt–Clausen over Z (9): 35, 49, 56, 128, 174, 185, 198, 200, 285.

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