AMC

1966 – 1984

AN ANECDOTAL HISTORY

OF THE

APPLIED MATHEMATICS CONFERENCE

AND THE

DIVISION OF APPLIED MATHEMATICS

R.D. BRADDOCK

APPLIED MATHEMATICS CONFERENCE LOCATIONS

1966	Kangaroo Island
1966	Coorong
1967	Adelaide
1968	Hall's Gap
1969	Victor Harbor
1970	Lorne
1971	Smiggin's Hole
1972	Wollongong
1973	Surfers Paradise
1974	Lorne
1975	Tanunda
1976	Jindabyne
1977	Terrigal
1978	Broadbeach
1979	Leura
1980	Cowes
1981	Victor Harbor
1982	Bundanoon
1983	Perth
1984	Merimbula

An Anecdotal History of the Applied Mathematics Conference

and the Division of Applied Mathematics

R.D. BRADDOCK

Australian Environmental Studies

Griffith University

Nathan, Qld. 4111.

Foreword

In 1983 the Executive Committee of the Division of Applied Mathematics under the Chairmanship of Dr. R.S. Anderssen decided that a History of the Applied Mathematics Conference and the Division of Applied Mathematics should be written before too much information about 'our beginnings' had been forgotten. The idea of a History of the Division was greatly assisted by one of Professor Ren Potts' legendary after-dinner speeches, this time on his version of the first Applied Mathematics Conference in 1966.

It is highly appropriate that Dr. Roger Braddock write the first 'history' of the Applied Mathematics Conference and the Division of Applied Mathematics for he was the 'organiser' of the first conference in 1966, held on Kangaroo Island, a later conference on the Gold Coast in 1978 and has been Secretary of the Division for 5 years. Roger has chosen an anecdotal style to present the 'history' which has much in keeping with the best traditions of the Applied Mathematics Conference.

On behalf of the Division I wish to record our thanks to Roger for the efforts he has made for the Division and in collating and writing this history.

J.R. Blake,

Chairman,

Division of Applied Mathematics

November, 1984

Preface

At its annual conference in Perth during February, 1983, the Division of Applied Mathematics decided to commit to paper as much as possible of the mythology of its own beginnings and also the origins of its annual conference. The Division appointed its secretary to be the chief scribe in this undertaking, and promised all possible assistance and encouragement. As we shall see, this approach is in line with much of the evolution of the annual conference and of the Division.

One result of this commission has been a frantic raiding and searching of filing cabinets around the country, and a desperate flogging of memories at the bar. Despite this effort, and like all things evolutionary, the origins, even now, are lost. We do not have full records of the conference through time, and we do not know the origins of early suggestions to form an Applied Mathematics Association (Division, Society, or whatever). The history which follows, is based on the best documentation still available and correlation of memory and mythology. Many people have emptied files, both cerebral and cabinet, in assisting with the task. Most of those mentioned in the following, read a version of the manuscript and attempted to correct sins of omission and commission. I thank them for their assistance.

In organising the material provided, I quickly discovered that the only things of real interest were the mythology, (about which there was little or no factual basis) and the interactions and personalities of the people involved. This posed the triple dilemma of either turning fiction into fact, inviting a libel suit or being a dead bore. I have attempted to avoid all three by emphasising mythology, and humorous events while dull statistics appear in tables which are located in appendices A to F.

First Conference

The first Applied Mathematics Conference, has developed a mythology all of its own; understandably so since only 18 people attended. This has left a rich and fertile ground for the mythology to take root. The credit for the concept of the first conference must be shared by two people - Ren Potts (then Professor of Applied Mathematics at Adelaide University), and Rainer Radok (then Professor of Oceanography at Flinders University, previously of Adelaide University). Flinders University had just opened and Rainer was one of the new staff members. We suppose that one of these gentlemen suggested to the other that they and their departments get together to exchange ideas, drink beer and get to know each other. The idea was first raised in the middle of 1966, but the thought of meeting in a University seemed so dull. Rainer, as Professor of Applied Mathematics had obtained a field station on Kangaroo Island, 90 miles south of Adelaide, and was keen to show it off to all and sundry. Rainer was an innovator. The bold step, the adventurous idea; these were his strengths. Fantastic! The idea took hold and Kangaroo Island it was. The last step was the selection of someone to "organise" the conference and do the leg work. Enter the postgraduate student still at Adelaide but about to follow his supervisor, Rainer, to Flinders; a rather young and inexperienced Roger Braddock.

Even before the first conference, the lasting pattern was set; conferences should be held in congenial surroundings, away from Universities. The logistic problems associated with the first conference were enormous, (aren't they always?) and very different. Imagine, if you can, lonely Cape de Couedic on the southwest tip of Kangaroo Island. A recently automated light house and three old stone cottages perched atop the 400 foot cliffs, rain swept, gale lashed and with an uninterrupted view of the Southern Ocean all the way to Antartica. Behind lay the unbroken bush of Flinders Chase Wildlife Sanctuary. This unlikely location was to be the venue for the conference; 10 miles of rough bush track to the nearest neighbour at the ranger station, 36 miles to the nearest petrol and 80 miles from the only real town (and more importantly, the only pub) at Kingscote.

A logistics nightmare was compounded by the pioneering condition of the turn of the century cottages. The water supply was collected from the roof, stored in stone underground tanks, then hand pumped to a small storage tank to gravity feed the taps. Exercise on the hand pump before breakfast was the order of the day. Power was obtained from a wind mill and bank of batteries; or kero lamp. Sanitation was definitely of the "bucket and chuck it" variety. Bedding was a few old wire mattresses, or air mattresses, plus sleeping bags. Heating was wood fires, and this was winter in the Great Australian Bight. At least when the cottages were built, fire places were provided in nearly all the rooms. The old wood stoves were still in evidence although a bottled gas stove and oven had been installed in the field station. Barmen, cooks, bottle washers etc. were by roster. Transport was by the ferry between Kingscote and Adelaide, commercial aircraft to Kingscote, and by chartered light aircraft to a private airstrip just outside of the Chase. Every conference had its problems; at least these were different to the usual run of the mill problems.

The first conference was held during the August break between terms, from Sunday 26 August to Monday 27 August, in 1966. An advance guard of four postgraduate students, Roger Braddock, Ron Kirby, Glen Thompson and Colin Loughhead, flew to Kingscote to make ready. They collected the Flinders' University Landrover which was stationed there, filled it with supplies of food and beer, and set off down the Island's red roads to find the rocky track to the Cape. Once there, they rearranged furniture and put blades on the windmill so the 32-volt lighting system could be used. They also returned to Kingscote to meet the ferry at a cold 2a.m. one freezing night, and collected a second car packed with more supplies, an overhead projector and the likes. Work-horses!! - the time invariant lot of postgraduate students.

The bulk of the conference delegates, mostly staff and postgraduates from Adelaide and Flinders Universities; but also the principal guest, one Dr. Robert Herman, who was visiting Adelaide University at the time, travelled in comfort by light aircraft, arriving at a private airstrip at Karratta Station near the Chase. In this simple sentence lie several stories, each deserving pages

in the telling. Our pilot was *the* Nobby Buckley, one of the real "characters" of outback aviation. Both of Nobby's hands lacked digits, or parts of digits, and each knuckle attested to a tale of derring - do somewhere in outback Australia or New Guinea. This tale, treasured and retold with great verve by Ren Potts, relates to Rainer's Pig.

The conference programme called for a barbequed pig to take pride of place at the conference dinner. Rainer ensured its freshness by embarking on a 6 seater plane, with a fresh, and messy pig carcase under one arm. Too big for the luggage hatch, it shared the crowded cockpit with Nobby, Rainer, Ren and others. Nobby could fly, have no doubt of that, and extra curricular sightseeing was the order of the day. He dipped and glided to show this piece of coast, and turned and twisted to look at an island or two. Meanwhile, the pig obeyed the laws of mechanics and visited each person and corner of the cabin in turn, leaving bright red calling cards of blood and grease.

At last, they reached the Karratta Station Airstrip; a cow paddock with a few painted rocks and a pair of long johns to give the lie of the wind; always a strong westerly. The cows were still there on the strip and had deposited their usual contributions in plentious supply. Several low level sweeps and quick turns later (the pig revisited all previous stops) and the cows, but not their contributions, had been moved. Once on the ground, the plane needed a wash, both internal and external, and the pig was safe in the boot of a car. Other similar, but less eventful, trips saw all the delegates installed and the conference opened.

We must have talked applied mathematics some of the time; at least as a token gesture to justify the costs to the two Universities; a report on the conference was prepared and is reproduced, in part, in Appendix A. Certainly we all observed the swell breaking on the rocks in the arch of the Cape: the oceanographic delegates probably observed the wave period at about 16 seconds, and height at breaking as about 20 ft. Ren Potts and Bob Herman carried out observations on traffic flow, car following laws and car queuing, using the road at the front of the cottage. The theory and results suffered from small sample sizes given that approximately one car per day ventured down

the trail to the Cape. Everyone inspected the Remarkable Rocks, a granite outcrop contorted by wind and rain. The early risers counted wallabies and kangaroos inside the garden fences of the cottages; although it is doubtful if any publishable material was collected. Others walked miles in the bush with heads in the air looking for Koalas in the tree tops.

We must have discussed applied mathematics for Bob Herman described the problems in transferring a body panel shape for a car, from a small scale model, to the die for the production pressing of the panel. General discussions were centred on the topics:

"Applied Mathematics courses at the late high school and undergraduate levels."

"Applied Mathematics at honours and postgraduate levels, course and research aspects."

"Applied Mathematics in research and research in Applied Mathematics."

These topics are ageless in their relevance to staff and students, and to the health of the subject. "Formal" presentations used an overhead projector shining on the wall. Fortunately the cottage had been built on an expansive scale and the rooms were large. Nearly everyone talked about their newly commenced or half completed research, although other factors seemed to intervene at times. We all fed the kangaroos and emus at the Ranger Station. "Emus have strange dietary habits"; perhaps that was the significant result from the conference.

We all sat in the scrub behind the cottages and held a deep philosophical discussion on the meaning of Applied Mathematics. Reyn Keats contended that "Applied Mathematics was what Applied Mathematicians did!": Ren Potts continued the line of thought by contending that "Applied Mathematicians worked in Applied Mathematics!" Discussion also concentrated on what constitutes research, what topics are legitimate research topics and what constitutes a publishable result or paper. Some of these topics have been, and will be relevant discussion points for a long time to come. Just then, Rainer observed that the fire under the pig had died down during the long discussion. The sight of seagulls feeding on our dinner brought a speedy end to the discussion

session! The final word on the pig was that the outside crackling was burnt to a cinder, the inside was almost raw; Applied Mathematics in action!!

On the Sunday evening, George Lonzar, the ranger, and his family, joined the conference for the evening dinner, a round at the keg and more discussion. The keg had been frozen solid at the pub in Kingscote, transported down to the Cape and buried in the sand to preserve the temperature. Discussion started on the lofty plane of jobs for Ph.D. graduates, and drifted as the night wore on, to mathematical puzzles, mind benders and the like. George Lonzar stumped everyone with his poser "How do echidnas make love?". The answer, of course, is "Very carefully"!.

After about two days, the conference drew to a sad close, and the light aircraft came to transport the staff back to Adelaide. Ren Potts and Rainer Radok now had the unenviable task of steering the accounts for aircraft, beer kegs, pigs etc. through University administrations. Fortunately, it was still the expansionist mid-sixties rather than the bureaucratic late seventies-early eighties.

The advance party was supplemented by more postgraduate students and transformed itself into the clean up gang, hence to wend its way back home. This almost never eventuated due to the treacherous nature of the island roads. Paving was almost unknown on the island at the time, except for the main street in Kingscote. Elsewhere, iron stone or iron nodules, "roller bearings" as the locals knew it, were used as the universal road building material. As the convoy of conference vehicles travelled back up the island, the landrover which was leading, had cause to stop unexpectedly. The station wagon following rode the "roller bearings", its radiator bearing down menacingly on the protruding tow bar of the Land Rover. At the last possible instant, the roller bearings gave up their little game. The wheels gripped. The imminent demise of 10 or 12 promising Ph.D. theses was avoided by a very narrow margin.

The ferry departed at 3.00 a.m., the Island settled back to its habitual somnolence, and the weary students, already bracing themselves for Rainer's next brainstorm, crept back to their Universities. There the greeting was along the lines of "have you worked up those ideas we discussed last week?"!

Unbeknown to all, however, a die had been cast which has endured to this day. The conference location was to be away from a University, in a casual relaxed atmosphere, there was to be a principal guest and students were to play a large part. The current dearth of postgraduate students has altered the character of our recent conferences somewhat but many of these characteristics have been retained.

II. More Beginnings

Life at Adelaide and Flinders settled back to whatever level of chaos could be regarded as normality. Staff taught courses and chased research students; the students struggled with their computer cards and cursed card readers. Frank Snodgrass visited Flinders University for an extended period in late 1966. Frank was a Physical Oceanographer of note, with interests in the then developing fields of instrumentation, data collection, recording and processing. This was sufficient reason to run a second conference for people to get away from it all and Rainer rose to the challenge; besides, he had acquired a new field station and here was a perfect excuse to show it off. Once again a student was pressed into service and Dave Panton was selected to do the leg work. All printed records of the conference have disappeared and much has been forgotten.

The new field station consisted of a prefabricated cottage erected on a single block of land in a straggling line of holiday shacks beside the Coorong. The Coorong is a one hundred mile length of narrow shallow water, stretching along the South Australian coast south east from the Murray Mouth. The cottage is small, the landscape flat, the water very salty and undisturbed by waves. The nearest town is Meningie, some 12-15 miles away and some 100 miles from Adelaide by road; at least transport was not a pressing problem.

Perhaps the worst problem was the next bright idea generated by Rainer. "Let's run an experiment on the influence of the wind on the water level in the Coorong"; it was to run immediately after the conference. Easy stuff, - except that the measuring instruments incorporated an automatic recording device consisting of 3 very human high school students; a grand total of 80 students selected from various Adelaide high schools. More logistic nightmares, - 80 high school students supervised by a tribe of postgraduate students spearheaded by John Noye, Alan Easton, Bill McKee and Dave Panton. The conference for a mere 18 adults palled by comparison!

Accommodation problems for the conference were solved by the use of one of the neighbouring shacks and Dave Panton settled to the task of drawing up programmes, kitchen rosters, and the like. The principal guest was accorded special status; no kitchen roster. But no special status for Professors Radok and Potts; they did K.P. with the rest of us, and their psychological presence ensured that all carried a fair share of the load.

On Saturday 3 December, 1966, Dave Panton set off as the advance guard, with a VW Kombi stuffed to the gills, and towing a boat also stuffed to the gills with supplies, programmes, overhead projectors, and all the gear needed to run a conference. Things proceeded according to plan until that night when the weather took a hand. It rained, it blew, it hailed above and beyond the call of duty for mother nature. The gales were so exceptional and so widespread that they were headlined in the Adelaide press. Tracing back through the old newspapers was the only way that we could fix the date of the conference as Sunday 4 December, to Tuesday 6 December, 1966. Water lay everywhere. The power blacked out but a tentative phone call to Rainer in Adelaide confirmed that the conference was on. However, the attendance was affected.

As delegates from Adelaide and Flinders began arriving on the Sunday morning, Dave began panicking over the silent fridge full of perishable food and warm beer. We gathered outside in the sun, watching the puddles disappear into the sandy soil, and raised hearty cheers and warm beers at the arrival of the electricity truck to repair storm damage. The conference got under way (an approximate attendance list is given in appendix B).

The most lasting memory of the program involves Bob Anderssen and his talk on determinants. Picture some 20 people crammed into a small lounge room, with a blackboard as large as the proverbial postage stamp. It is a well-known observational fact that Bob Anderssen starts a talk at a presentation rate of 1 overhead slide of material per minute, and that this rate increases in inverse proportion to the time left. The blackboard was small and Bob gradually disappeared in a cloud of chalk dust as his writing and dusting sped up.

With a practial oceanographer like Frank Snodgrass as the principal guest, observations of an oceanographic nature proceeded apace. On the Coorong, there are no wind waves of any note but, on this occasion, a wind induced circulation pushed all the water to the far end leaving our oceanographic observations high and dry on acres of mud and sand flats. However, boat crossings to the far side followed by walks to the sea, confirmed the vigorous nature of the wave climate in the Southern Ocean. Weighty philosophical discussions followed the consumption of the local brew, Southwark Bitter, and the weather remained kind: - sufficient ingredients in themselves to declare the conference a success.

Most delegates departed about Tuesday midday and left the Flinders postgraduates to receive their high school students for the "Great Coorong Experiment". One item of the departure is burnt deeply into the nostrils, if not the memories, of Dave Panton and Bill McKee: they formed the ubiquitous postgrad clean up gang. After the conference, the chemical toilet had to be emptied: to say that it was "ripe" would be a gross understatement. With handkerchiefs knotted tightly around their faces, they struggled with the brimming brew towards the freshly dug hole. A passing family, complete with pistol-packing kids, stared goggle-eyed at the performance. "Look Mummy", the kids yelled, brandishing their six shooters, "Cowboys!".

After such an outlandish start, it is little wonder that the rest of the story pales by comparison: besides, Rainer was content with just two field stations. A further reason may be that records still exist for all subsequent conferences and the mythology is held in check. The third conference was a tame affair, being held at Flinders University over the Queen's birthday weekend. It was arranged relatively quickly to take advantage of the visit of Professor Bruce Morton, also Dr. G. Tucker and Mr. R. Maine of the Melbourne Meterological Bureau. Professor R. Rosenberg was also visiting Adelaide at the time and participated in the talks. The weather was cold and wet, there was little or no social programme apart from a barbeque, and the locals stayed at home in droves, only turning

up for the talks they really wanted to hear. The comradely spirit of being "away from it all" was sadly lacking.

The presented papers favoured Atmospheric and Oceanographic problems, a natural result of the interests at Monash and Flinders Universities at that time. Some operations research and more conventional applied mathematics rounded out the programme. A copy of the programme is given in Appendix C.

There were two notable features to this conference, both of which were forerunners to a productive and successful future. The first was the interest and participation by others from outside Adelaide. The second was the offer by Bruce Morton to participate in arranging the next conference. A firm footing had been established and the rest is the result of continued growth and evolution. Rainer attended further conferences but his interests took him more deeply into experimental oceanography, and away from Applied Mathematics. His talents lay in initiating projects, and his task was complete. Ren Potts has maintained his interest and has a further part to play in the development.

III. Consolidation and Evolution

Dr. Roger Hosking and Professor Bruce Morton thought that they would arrange a small quiet joint seminar between Flinders and Monash Universities, to swap ideas on the atmosphere and ocean. Both topics were relatively big in those universities at the time. However, the latent interest in such pleasant, relaxed and stimulating activities caught them by surprise, and the conference suffered a quantum jump in size. Suffice to say that the Mathematical community of Melbourne welcomed the idea, and the hotel at Hall's Gap was quickly filled. The message had also penetrated further interstate and Mr. Trevor Parkes from Duntroon and Dr. Henning Rassmussen of Queensland also joined in. This growth continued the following year, when Sydney side first put in an appearance with the attendance of Dr. Lau and Mr. Thomas. By 1971, delegates were coming from most states, and by 1976, the New Zealanders were crossing the Tasman to inspect this unique conference.

Travel to the initial conferences was rather haphazard with aircraft landing in cow paddocks or cars ploughing through rain and mud to get to the Coorong. In 1977/78, the conferences attained a professional air and started to use the conference packages offered by the major airlines. However, the old ways were not entirely forgotten as, in 1982, Professor Bernard Neumann pedalled his bicycle from Canberra to Bundanoon. Unfortunately he disappointed all of us by opting for a more conventional method of transport in attending the 1983 conference in Perth. Certainly Professor Neumann has been in regular attendance for a number of years.

Attendance lists were not kept for the early conferences and in other cases, they are not accurate. Often they represented enrolments by the early registration date, and then became less well kept as the conference gathered mementum. From the best information available Professor Ren Potts seems to claim the title of conference patriach, having attended about 14 conferences. Others such as Neville de Mestre, Roger Grimshaw, Ernie Tuck and Roger Braddock have tallies into double figures.

The nature of the attendance has altered markedly over the years. In the early days, it was mostly research students with a leavening of academics and scientists. This feature was reinforced by the introduction of the student prize in 1969 at Victor Harbour. This prize is awarded to the best student paper presented at the conference, and, apart from 1973 (and perhaps 1972), has been awarded annually. In May, 1976, the Division adopted the more formal name "T.M. Cherry Student Prize", to commemorate the name of one of Australia's leading Applied Mathematicians. Conference organisers have always attempted to encourage student attendance and the students have responded as have the families of delegates. In 1971, at Smiggins Holes, some 28 of the 82 participants were accompanied by their wives and many of these brought along their infant children. The early morning number drill on "Sesame Street", care of A.B.C. television, was the best attended seminar of the day. Audience participation and concentration were of the highest level, as the family young far outstripped that displayed by their parents in the "live shows" later in the day. Some of the older brigade were heard to mutter in their beards about the excess of domesticity and lack of serious business; possibly the thoughts of disgruntled wives and school age children left at home may have had something to do with it.

Unfortunately, fewer and fewer postgraduate students are attending now. The main reason is probably that there are fewer postgraduate students in Applied Mathematics; a sign of the times, and the desire to get a job. This is reflected in the structure of the conference programmes, and the number of student papers has dropped in recent years. The memories of one's own student presentations linger on; the sleepless night, that important sheet of paper lost in the pile of trivia, the dry throat, the professor questioning the validity of some trivial assumption, the brain like cold suet, and the merciful release that comes with the final applause. The list of prize winners is also, unfortunately far from complete.

Other forms of presentation have been tried and, in particular, the poster sessions enjoyed a brief popularity, especially in the period 1977-1979. These were friendly sessions. Large numbers of

people, each clinging to a glass of favoured tipple, crammed into a small room studying intently the posters there displayed. The details of some of Bob Gibberd's population models were too subtle for some, while others found difficulty in fathoming Noel Barton's explanation for the swing of a cricket ball. Many abandoned the theory in favour of further observational evidence on T.V. Afterwards, the posters formed an appropriate backdrop for further conference sessions. Against such a backdrop, who can forget Norm Frankel's paper at Leura? Well - your honourable scribe for one!!! The paper was entitled "Tachyons and the Early Universe", and was expertly delivered in Norm's very own inimitable style. The content quite escapes me, but not so the hilarious judging system devised by Neville de Mestre and friends. Suitably armed beforehand with large numbered cards, they held up judging scores at the conclusion of the talk, an imitation of the judging procedures for diving, ice skating or gymnastics. Fortunately our judges for the Cherry Prize have been more discreet and likewise we have spared our invited guests such a fate.

The invited speakers and principal guests of the conference have presented many stimulating talks to an eager audience. In the initial conferences, visitors on study leave filled the role admirably. For a number of years the practice by and large lapsed, until Professor Rudolf Vyborny, who was organising the 1973 Summer Research Institute (SRI), and Professor Melvin Lieberstein pooled their efforts. Some of the overseas visitors to the SRI also attended our conference. In 1976, the concept of the Principal Guest was revived and has subsequently been supported by invited speakers both International and Australian based. In some respects, it is unfortunate that so many invited speakers have been included in the programme for it tends to play down the role of the postgraduate student, one of the unique features of the conference.

Some organising committees have been lucky in their choice of principal guest. The person approached has the time to spare, is amenable to the financial arrangements and is willing to participate fully. Others have proved difficult, wanting to change arrangements at the last minute, to appear at the conference for a minimum time and have generally been "difficult". All have expressed

admiration for the concept of a relaxed conference far from the usual hassle of a university, where the "locals" (the home town organisers) also participate fully instead of going home each night. Certainly Professor Frank Downton and Dr. Alan Tayler found Bundanoon almost perfect, ideal in fact, except for the main Melbourne-Sydney rail line passing the bedroom window.

Alan Tayler started the Oxford Study Groups in industry in the early '60s and presented a resume of some of their successes. Professor John Blake and the staff at Wollongong are interested in industrial problems and a feature of the 1982 conference was the day long focus on mathematics in industry. This followed and expanded on the theme of "Mathematics in Business and Industry", adopted at the 1981 conference by Ernie Tuck and John Noye. Other conferences have held general discussion sessions ranging from the philosophical, ie., what is Applied Mathematics?, through the teaching of Mathematics in general and Applied Mathematics in particular, to the pragmatic issues of employment. Presumably we have by now found out what constitutes Applied Mathematics!

Such weighty discussions have usually been accompanied and assisted by the proximity of light brown ale, and, even from the start, the "happy hour" has been a pleasant interlude in all the conferences. Other interludes have included tennis, squash, swimming (nearly always), bus trips, horse riding and walking to see flea ridden koalas and even river cruises.

At Hall's Gap in 1968, a concert recital was arranged, complete with published programme. The concert must have been quite up-market for the last item, to bring people back to earth, was a recital of selected Goon shows. The river cruises have included trips to the Murray mouth, and up the Swan River in Perth. Participants are able to unwind from the conference, on such a cruise, and are usually quite relaxed on returning to the conference venues.

These conference venues have ranged from old stone lighthouse keeper's houses (Kangaroo Island, 1966) through University college, to high class hotels complete with nightly floor shows such as the Broadbeach, 1978. The settings are usually very pleasant but one group of people never

appreciate the surrounds - they are lost in a sea of calamity. They, of course, are the organising committee. They have worked and planned and planned again often for a year - all for a period of a few short days. Everything can go wrong but it rarely does; or does it? Every conference has its tale of woe but the best was the 1973 conference on the Gold Coast. To say that it rained is to display the limitations of the English language; it bucketed as only it can in a Queensland cyclone. The programme went ahead as normal but to put foot out of doors was synonymous with a drenching.

A watershed occurred in 1978 when the conference was held at Broadbeach, again on the Gold Coast. Registrations were light during December and the Organising Committee planned accordingly. The Queensland summer progressed, dry and pleasant, as the Organising Committee waited with baited breath for the monsoon trough to wash them out. The deluge came, but from an unexpected quarter, as mathematicians in the south decided to chance the climate and register. Results: A late rush of registrations, money to burn, and fine beautiful weather.Some day the Queensland contingent will have to chance its summer wet and hold another conference. Others, of course, have had different problems. There have been protracted arguments with the hotels about parsimonious mathematicians cooking in motel bedrooms rather than using the dining room; or the conference director, agreeing to run the conference, instituting an Organising Committee and then going off on study leave! We all have our little headaches.

IV. The Division

The Division of Applied Mathematics (DAM) was established in Tanunda in 1975, but the seeds for its birth were sown many years before. The Australian Mathematical Society was established in 1956 and aimed to cater to the needs of all mathematicians in Australia. Certainly Applied Mathematicians joined the A.M.S and, in fact, sat on its council. However, by the late 60s the general feeling of many Applied Mathematicians was that the A.M.S catered more for Pure Mathematics. In fact, the early growth of the Applied Mathematics Conferences was a reaction to this feeling and it played a large part in future developments.

The first few conferences were organised on an ad hoc basis and with no precedents or formal structure; ie., by a professor telling a postgraduate student or a junior staff member to go and do it. Once Professor Bruce Morton from Monash became involved however, the conference grew rapidly and its organisation climbed up the academic hierarchy. More difficult was the question of succession: - who would be "asked" to run the next one. In 1971, this became a pressing issue as Smiggins Holes was a huge success, but there was no rush of volunteers to host the next conference. All present can remember the gathering of professors discussing the problem, late one afternoon. Who should be "volunteered". Finally, if correspondence at the time is to be believed, a "non-professorial volunteer" caved in.

Dr. Keith Tognetti of Wollongong, was delegated and left Smiggins Holes with the happy task of telling Professor Austin Keane what he had been "let in" for. The correspondence indicates that the last task of the Organising Committee was to find a successor. In May, Austin Keane wrote that "after two months we stopped abusing Tognetti ... and have decided to see if we can organise it". Dr. Neville de Mestre handed over the magnificent sum of $53.71, the accumulated bank roll from all the previous conferences. Registration at Wollongong was $5.00 for staff, $4.00 for students, the total budget was $687.71, and $89.27 was handed on to the next conference.

Finance was no problem. The real problem was the line of succession and the formal structure. Due to perceived bias by the A.M.S., there was talk that "something must be done". The talk persisted in 1972, but, apart from an intense study of the bottoms of beer glasses, little was done. During this time, the designated organisers of the 1973 conference withdrew, and Austin Keane was left with a real problem. Enter an American, who promptly agreed to organise the 1973 conference. Melvin Lieberstein quickly perceived the succession problem and resolved to do something about it. In October, out came the tentative programme with an agenda item on:

"Management of Applied Mathematics in Australia"

and a request for comments and contributions.

The response was immediate. Professor Ted Buchwald rose to the occasion and initiated correspondence on 1 November, 1972, with other Applied Mathematicians around Australia. Events moved quickly.

On Friday, 9 February, 1973, Professors Buchwald, Burns, Keane, Mahony, Morton, Pillow, Potts, Rosenblat, Richmond, Smith, Thompson and Wilson met informally at the University of New South Wales to discuss the issues and consider their options before going on to confront the conference in the Apollo Hotel on the Gold Coast; and the lurking Queensland cyclone. Their ideas met a ready audience and the following motions were passed.

1. *That the Australian Mathematical Society Council be asked to investigate the feasibility of forming a separate Division of Applied Mathematics within the Australian Mathematical Society.*

2. *That this meeting of the Applied Mathematics Conference held at Surfers Paradise considers that an Australian Journal devoted to the applications of Mathematics is viable and recommends that a proposal be put to the Australian Mathematical Society*

that the Journal of the Australian Mathematical Society be henceforth published in two

parts:

a. *Pure Mathematics, and*

b. *Applied Mathematics*

and that Professors J.J. Mahoney, A.F. Pillow and R.B. Potts be asked to collect

evidence and present the case to the Australian Mathematical Society.

At no stage did the Applied Mathematicians feel that the current set up was a viable

option, nor were they content to remain unrecognised within the A.M.S. The debate had

several foci, a separate division of the A.M.S., or a separate entity of some form, and a

publishing activity concentrating on the general areas of Applied Mathematics.

Who thought of the word "Division"? I don't think anyone really knows, but the two

subgroups set about their tasks with a will. By early April, 1973, the idea had been broached

with the A.M.S. president and the reactions were sufficiently encouraging to carry on the

activity.

Membership registers were collected, publication lists were drawn up and some felt

miffed at being left out of the action. Debate surged around the possibility of publishing

Applied Mathematics articles in the current A.M.S. journal, splitting the journal into two

parts, and initiating a separate journal. The case for the Division was argued at the A.M.S.

Council meeting in Hobart that year, with mixed reactions.

A long philosophical debate ensued. The signs were still sufficiently encouraging for

timetables for formation of the Division to be drawn up. However, the proposal required a

change to the constitution of the A.M.S., and the drawing up of a suitable constitution for

the new Division; both lengthy affairs.

By November, 1973, the A.M.S. was polling its members, Professors Buchwald, Morton and Rosenblat were trying out draft constitutions, and branches in New South Wales and Victoria, were holding meetings.

So to Lorne for the 1974 conference and more enlightened debate. Whilst the concept of a separate Division had been accepted by the A.M.S. council, some discontent still resided in a few A.M.S. members. The mood of the conference quickly swept this aside and the major debates centred on the question of a Division of A.M.S., or a separate organisation completely independent of the A.M.S., and on the possibility of some publishing activity within or without the A.M.S. Again, the debate was spirited. The possibilities of an independent journal seemed to be zero for financial reasons. This seems to have been the principal reason for staying with the A.M.S. umbrella. Certainly the A.M.S. body provided a financial and circulation base for any new publishing activity. Finally, the proposal to form the Division was put by Ted Buchwald and carried 66 to 8. Only the tidying up was left; financial arrangements with A.M.S., a constitution and an Interim Committee. A further matter for negotiation was the splitting of the A.M.S. journal into Series A and Series B. The May 1974 meeting of the A.M.S. council tied most of the legal knots, subject to a ballot of members; the Applied Maths conference had spawned a Division and a journal (Series B; to appear in 1976) and branches.

So to Tanunda in February, 1975, to christen the brat and make it legitimate; where better to wet the head than South Australia where it all began 9 years earlier. With Barossa reds and whites close at hand, 57 attended on 4 February, 1975, although the total membership was already 159 at the time. Membership climed rapidly to 222 in early 1976, 274 in early 1978 and to the current 305 (February, 1983); but has remained near 300 for a few years now.

The constitution provides for a strong executive system and the executive set about its task with a will. Changes to the constitution in 1975 and 1983, required at least one executive member for each state, and permitted longer term planning. Some inexperience showed through as our records

are not complete; ie., our yearly membership numbers have not always been precise, and adequate reporting of the Annual Conference did not occur until 1981. We still do not know all the winners of the T.M. Cherry Prize.

The A.M.S. journal, Series B, started under the editorship of Professor J.J. Mahoney, who had the onerous task of attracting and editing papers for this new endeavour. The flow of quality papers built up under his guidance and the journal, Series B, was firmly established. In 1978, Professor I.H. Sloan took over as the editor and continued the task. Both editors have attempted to maintain a quality publication dealing in all aspects of Applied Mathematics.

The Division contains in its constitution, provision for special interest and regional groupings. It has spawned 3 branches. The Sydney and Victorian Branches started in 1974/5, Queensland branch got under way in 1978; the Victorian Branch has been the most active. Recently a special interest group focusing on numerical techniques in mathematics, has been constituted. In many respects the Division, through its conference, has focused on the more classical areas of Applied Mathematics. The move to this special interest group reflects more modern trends in Applied Mathematics. It is hoped that the Division continues to follow this course, pursuing the modern and newer areas, and striving to encourage the young mathematician and research student: therein lies our secure future.

APPENDIX A

This is a copy of part of the report of the First Applied Mathematic Conference, prepared by Professors Radok and Potts.

FIRST

FLINDERS UNIVERSITY - ADELAIDE UNIVERSITY

APPLIED MATHEMATICS CONFERENCE

CAPE DU COUEDIC

KANGAROO ISLAND

26th, 27th August 1966.

Participants

Miss Heather Attenborough
Mr Roger Braddock
Mr Mee Cheng
Mr Alan Easton
Professor Robert Herman
Dr Reyn Keats
Mr Ron Kirby
Mr Colin Loughhead
Mr Robert May

Mr John Noye
Mr Dave Panton
Mrs Betty Parker
Mr Robert Pearson
Ms Rhonda Potter
Professor Ren Potts
Professor Rainer Radok
Mr Tony Tan
Mr Glen Thompson

General

The Conference was held in the beautiful surroundings of Kangaroo Island. Facilities were made available by the Horace Lamb Centre for Oceanographical Research of Flinders University. Fine weather prevailed throughout, so that many of the functions could be held outdoors.

The theme of the Conference was "Applied Mathematics at all educational levels". This was discussed at three official sessions. However, unofficial discussions took place as well, and everyone had something to contribute. Other subjects were also intensively discussed. These included the amount of work a graduate student should do and the frustrations of a research career.

Many of the participants took the opportunity to have a look at the wonderful scenery on the island. There were organized excursions to various scenic spots, e.g. to the Remarkable Rocks and South West Bay. The meals were very well prepared, and it was quite an experience to see a whole pig and lamb being roasted.

All in all, the participants voted the Conference a great success with stimulating discussion, good food and interesting excursions. Thanks are due to Professor R. Radok for the use of the facilities, to R. Braddock for bearing the brunt of the organisational work and to Dr R. Herman for an entertaining talk.

APPENDIX B

Participants in the Second Applied Mathematics Conference at the Coorong Field Station, December, 1966. The list is probably inaccurate and incomplete; names and titles were current in 1966.

Mr Robert Anderssen

Mr Roger Braddock

Dr John Bye

Dr Roland Byron-Scott

Mr Alan Easton

Dr Roger Hosking

Dr Reyn Keats

Mr Ron Kirby

Mr Robert May

Mr Bill McKee

Mr John Noye

Professor Ren Potts

Professor Rainer Radok

Dr Tom Sag

Mr Franz Salzborn

Professor Frank Snodgrass

Mr Glen Thompson

A P P E N D I X. C

List of presented papers given at the Third Applied Mathematics Conference held at Flinders University, June, 1967. Names and titles were current in 1967.

PROGRAMME

Saturday 10 June, 1967

Speaker	Title
Professor Burce Morton (Invited Speaker)	"Vortices in the Atmosphere and the Laboratory"
Dr Tom Sag	"Numerical Evaluation of Multiple Integrals"
Mr Roger Braddock	"Long Wave Reflection"
Dr Rudolf Vyborny	"Uniqueness of Solutions of Parabolic Equations"
Mr Glen Thompson	"A Practical Approach to the Travelling Salesman Problem"
Mr Mee Cheng	"Detection of Random Signals by Polarity Coincidence Correlation"
Dr J Mazumdar	"A method for Solving Problems for Elastic Plates of Arbitrary Shape"
Mr R Maine	"Experiments in Numerical Analysis and Prediction of the Atmosphere in the Australian Region"
Dr John Bye	"Report on the Horace Lamb Centre; Cruise No. 2"
Mr John Noye	"Directional Recording of Ocean Waves"
Mr Desmond Mills	"The Effect of Pack Ice on Ocean Swell"

Sunday 11 June, 1967

Speaker	Title
Dr G Tucker (Invited Speaker)	"Aspects of the Dynamics of the Lower Stratosphere"
Mr Ron Kirby	"Distribution of Urban Trips"
Dr Roland Byron-Scott	"A Stratospheric Model"
Mr Bill Summerfield	"Wave Trapping by Circular Islands"
Dr Jerry Kautsky	"Two Notes on Methods for Finding Hidden Periodicities"
Mr Dave Panton	"Magneto-hydrodynamic Channel Flows with Free Surface Conditions"
Ms Carol Webber	"Internal Waves in a Lake bounded by a Surface of Revolution"
Professor R Rosenberg	"On the Existence of Shadows in Highly Heterogeneous Optical Media"
Dr Roger Hosking	"A Theory of Galactic Spiral Structure"
Mr Dave White	"Low Power Data Recording"

A P P E N D I X D

Details of the Applied Mathematics Conferences as extracted from conference literature and reports. The details may not be completely accurate in that actual attendees and presented papers may differ from the published programme. Titles and names were current at the time. Further details are given in appendices E and F.

Dates	Locations	Organising Committees	Number of Attendees	Number of papers in each category
Sunday 26 August to Monday 27 August 1966	Cape de Couedic Field Station Kangaroo-Island South Australia	Prof. R. Radok (Flin) Prof. R. Potts (Ade) Mr R. Braddock (Ade & Flin)	18 (See Appendix A)	One guest paper, three general discussions and short talks
Sunday 4 December to Tuesday 6 December 1966	Coorong Field Station via Meningie The Coorong South Australia	Prof. R. Radok (Flin) Prof. R. Potts (Ade) Mr D. Panton (Flin)	Not known Estimates range from 20 to 25 (See Appendix B)	Not known Probably 10 to 15 talks of 30 minutes duration. Student papers were given
Saturday 10 June to Sunday 11 June 1967	Physical Sciences Building Flinders University South Australia	Prof. R. Radok Mr R. Braddock Mr R. May Ms C. Webber Flinders University	Not known Estimates range from 20 to 40 (See Appendix C)	21 presented papers Student papers not identified
Wednesday 28 February to Friday 1 March 1968	Hotel Chateau Hall's Gap The Grampians Victoria	Prof. B. Morton (Mon) Dr R. Hosking (Flin)	56 participants	37 presented papers Student papers not identified The first conference outside South Australia
Sunday 23 February to Wednesday 26 February 1969	Hotel Victor Victor Harbour South Australia	Dr J. Mazumdar Dr E. Tuck Adelaide University	71 participants	1 invited paper 22 presented papers 12 student papers
Sunday 22 February to Wednesday 25 February 1970	Erskine House Lorne The South West Coast Victoria	Dr W. Wood (Melb)	82 participants	24 presented papers 12 student papers
Sunday 21 February to Wednesday 24 February 1971	Smiggin's Hotel Smiggin's Hole Mount Kosciusko Australian Capital Territory	Dr N. de Mestre Mr T. Parkes Royal Military College, Duntroon	82 participants	20 presented papers 18 student papers First conference held in New South Wales
Sunday 27 February to Wednesday 1 March 1972	Wollongong University Wollongong New South Wales	Prof. A. Keane Dr D. Clarke Wollongong University	50 participants	15 presented papers Student papers not identified Closed early on the Tuesday afternoon
Sunday 11 February to Tuesday 13 February 1973	Apollo Motor Inn Surfers Paradise The Gold Coast Queensland	Prof. M. Lieberstein Newcastle University	41 participants	6 invited papers 8 presented papers Student papers not identified
Sunday 17 February to Wednesday 20 February 1974	Erskine House Lorne The South West Coast Victoria	Prof. S. Rosenblat Dr D. Gates Dr F. Barrington Melbourne University	122 participants	3 invited papers 43 presented papers 15 student papers

Date	Locations	Organising Committees	Number of Attendees	Number of papers in each category
Sunday 2 February to Wednesday 4 February 1975	Wiental Motel Tanunda The Barossa Valley South Australia	Dr D. Panton Dr D. Lee South Australian Institute of Technology	112 participants	2 invited papers 41 presented papers Student papers not identified
Sunday 1 February to Wednesday 4 February 1976	Lake Jindabyne Hotel/Motel Jindabyne The Snowy Mountains New South Wales	Prof. J. Gani Dr J. Blake C.S.I.R.O. Division	137 participants	9 invited papers 50 presented papers 13 student papers
Sunday 6 February to Wednesday 9 February 1977	Hotel Florida Terrigal The North Coast New South Wales	Prof. I. Sloan Dr M. Barton Dr S. Burn Ms F. Dewar University of New South Wales	180 participants	10 invited papers 48 presented papers 20 student papers 11 poster papers 4 discussion papers
Sunday 5 February to Wednesday 8 February 1978	Broadbeach Hotel Broadbeach The Gold Coast Queensland	Prof. A. Pillow Dr Y. Hart Dr R. Braddock Dr A. Bracken University of Queensland	186 participants	6 invited papers 42 presented papers 30 student papers 22 poster papers 3 discussion papers
Sunday 4 February to Wednesday 7 February 1979	Leura Gardens Motel Leura The Blue Mountains New South Wales	Prof. R. Tanner Dr P. Buchen Dr J. Seberry Dr J. Atkinson Mr R. Crossman Sydney Branch, Applied Mathematics Division	Not known	8 invited papers 44 presented papers 33 student papers 22 poster papers
Sunday 10 February to Thursday 14 February 1980	Continental Resort and Conference Centre Cowes Phillip Island Victoria	Prof. S. Rosenblat Dr F. Barrington Dr A. Easton Mr P. Evans Dr D. Ford Mr J Gilks Dr R. Jones Dr J. Rickard Victorian Branch, Applied Mathematics Division	113 participants	5 invited papers 10 student papers 33 presented papers 5 poster papers
Sunday 8 February to Thursday 12 February 1981	Mount Breckan Sport and Recreation Centre Victor Harbor	Dr J. Noye (Ade) Dr J. Boland (Ade) Dr T. Sag (Flin) Prof. E. Tuck (Ade) Dr D. Lee (S.A.I.T.)	153 participants	6 invited papers 46 presented papers 13 student papers 3 poster papers
Sunday 7 February to Thursday 11 February 1982	Bundanoon Hotel/Motel Bundanoon Southern Tablelands New South Wales	Dr J. Hill Dr P. Cerone Dr B. Quinn Dr P. Castle Mr G. Fulford Dr T. Horner Wollongong University	170 participants	17 invited papers 53 presented papers 9 student papers
Sunday 6 February to Thursday 10 February 1983	Ascot Inn Perth West Australia	Dr W. Perriman (WAIT) Dr J. Hopwood (U.W.A.) Mr B. White (W.A.I.T.) Dr L. Jennings (U.W.A.) Dr P. Kloeden (Murd) Dr B. Goh (U.W.A.)	110 participants	10 invited papers 52 presented papers 8 student papers

APPENDIX E

Further details of the Applied Mathematics Conference

Year	Principal Guest and Invited Speakers	Student Prize winner	Topics for general discussion	Excursions and Recreation	Comments
August 1966	Dr R. Hermann (Principal Guest)	Not Awarded	What is Applied Mathematics?	Rock scrambling; Surf observations; Bushwalking; koalas, emus and kangaroos	The first conference attended by staff and students of Adelaide and Flinders Universities (see text)
December 1966	Prof. F. Snodgrass (Principal Guest)	Not Awarded	———	Rowing on the Coorong, bush and sand hill walking	South Australians only. (see text)
1967	Prof. B. Morton (Principal Guest) Dr G. Tucker Mr R. Maine (Invited Speakers)	Not Awarded	———	Barbeque lunch	Hurriedly organised and held on a cold wet weekend. One of only two held in a University. First conference to draw participants from 'out of state'. First conference for which copies of the programme still exists.
1968 ——— .	———	Not Awarded	———	Climbing Mount Rosea. Scientific films. Concert complete with goon show recital	Trevor Parkes (Duntroon) and Dr R. H. Tasmussen (Qld) join the South Australians and Victorians. (The Chateau has subsequently been burnt out.)
1969	Prof. F. Snodgrass (Principal Guest)	Mr R. Jones (Adel)	What is Applied Mathematics?	Boat trip from Goolwa to the Murray Mouth; Beach activities	Student prize instituted. Further participation from other states, principally New South Wales
1970	———	Mr J. A. Rickard (London)	———	Beach walking; surfing and tennis	People from most states now attending the conference, which has become a regular feature.
1971	———	Ms J. Jones (Mt. Stromlo?)	———	Mountain climbing, bush walking; horse riding	Very pleasant surroundings in the Kosciusko Range. Difficulties arise in organising the succeeding conference.
1972	———	Not offered	———	Barbeque	The second of only two conferences held in a University. More difficulties in organising the succeeding conference.
1973	Prof. L. Guisti (Principal Guest) Prof. J. Diaz Prof. R. Potts Prof. B. Morton Prof. G. Morris Prof. M Lieberstein (Invited Speakers)	Not offered	Management of Applied Mathematics	None organised	It rained, and rained, and rained, and rained. Closely allied to the S.R.I., which was held at the University of Queensland. First steps toward a formal structure and the Division. Appointment of Buchwald, Morton and Rosenblatt to approach AustMS regarding the management of Applied Mathematics.

Year	Principal Guest and Invited Speakers	Student Prize winner	Topics for general discussion	Excursions and Recreation	Comments
1974	Dr J. Philip Dr C. Pratt Prof. C. Thompson (Invited Speakers)	Mr R. P. Oertel (Adel)	Mathematics teaching in schools, an Applied viewpoint. Organization of Applied Mathematics.	None organised. Beach walking, swimming, tennis.	Introduction of parallel sessions. Interim Committee established to pilot formation of Division. Victorian and Sydney Branches active.
1975	Dr J. Gani Dr J. Noye (Invited Speakers)	Mr E. Robinson (Syd)	Employment of graduate mathematicians. Launching the Division	Tours of the local vineyards and suitably launching the Division	Formal setting up and launching of the Division. (See the GAZETTE Vol. 2, No. 1)
1976	Prof. B. Noble (Principal Guest) Prof. P. Young Prof. R. Potts Prof. R. Tanner Prof. I. Sloan Prof. B. Goh Prof. D. Elliott Prof. J. Imberger (Invited Speakers)	Mr J. P. Abbott (ANU)	How to teach Applied Mathematics	Bus trip to Mount Kosciusko; bush walking	May 1976 Student Prize given the title of the T.M. Cherry Student Prize.
1977	Prof. G. Duff (Principal Guest) Dr R. Anderssen Dr J. Fitzgerald Prof S. Rosenblatt Prof. J. Butcher Dr C. Pask Prof. J. Mahoney Dr P. Buchan Prof. B. Anderson (Invited Speakers)	Mr J.J. Finnigan (CSIRO) Ms S. Bhaskaran (Adel) (Abstracts in the GAZETTE Vol.4, No. 2)	How healthy is Applied Mathematics?	Bus trip of the mountains; swimming, squash, tennis	Introduction and use of workshops; i.e., biofluids
1978	Prof. J. Keller (Principal Guest) Prof. G. Carrier Prof. G. Golub Prof. C. Garrett Prof. N. Hastings Dr R. Grimshaw (Invited Speakers)	Mr B. D. Hughes (ANU) Mr P J Robinson (Qld) (Extended abstracts in the GAZETTE Vol.5, No. 2)	_____	Bus trip to Springbrook. Swimming, drinking, eating.	It did not rain. Queensland Branch formed
1979	Prof. S. Lions Prof. P. Prenter Prof. E. Montroil Prof. R. Kerr (Principal Guests) Dr A. Head Dr M. Banner Prof. J. Overbeck Prof. B. Ninham (Invited Speakers)	Mr J. R. Coleby (Adel) Mr B. D. Hughes (ANU) (Extended abstracts in the GAZETTE Vol.6, No. 3)	_____	Excursion rambling through the Blue Mountains. Squash, tennis, swimming.	Organising Committee produced a daily new spread called the Daily Bull. Norm Frankel's paper heavily judged. Parsimonious mathematicians camp in motel rooms and don't use dining room. (Motel management upset)

Year	Principal Guest and Invited Speakers	Student Prize winner	Topics for general discussion	Excursions and Recreation	Comments
1980	Prof. S. Davis Prof. H. Keller (Principal Guests) Prof. K. Okugucki Prof. M. Van Dyke Dr E. Lapwood (Invited Speakers)	Mr M. Lucas (ANU) (Abstract in the GAZETTE Vol.7, No. 2)	Employment of Applied Mathematicians	Bus excursion on Phillip Island	Hotel well aware of camping habits of parsimonious mathematicians.
1981	Prof. R. May Prof. I. Sneddon Prof. C. de Boor (Principal Guests) Prof. E. Tuck Dr I. Richards Dr R. Aust (Invited Speakers)	Mr A. W. Plank (UNSW)	Role of Mathematics in Industry. Strengths and deficiencies in Applied Mathematics	Boat excursion on Lake Alexandria. The usual swimming and beach walking.	Cricket and basketball matches under lights raise the roof and attract attention of the police.
1982	Prof. I. Collins Prof. S. Cowin Prof. F. Downton Dr A. Tayler Prof. R. Turner (Principal Guests) There were a further 12 invited speakers	Mr G. Fulford (Woll) Mr J. Gear (Melb)	Mathematics in Industry - a full day of papers and general discussions.	Bus excursion of the southern tablelands. Swimming.	Prof. B. Neumann rides his bicycle from Canberra to Bundanoon to attend the conference. The hotel is located next to the main Melbourne/Sydney rail line so we all stay awake at night.
1983	Prof. D. Cohen (Principal Guest) Prof. H. Freedman Prof. P. Switzer Prof. D. Spence Prof. C. Rogers Prof. T. Hallam Dr J. Harper Dr S. Wilson Dr R. Gupta (Invited Speakers)	Mr P. Korvesi (UWA)	Policy discussion on Image and Presentation of the Division and of Applied Mathematics	Boat cruise on the Swan River	Prof. B. Neumann did not ride his bicycle from Canberra to Perth. The first conference held in a near city centre hotel.

Note In Roger Braddock's original Appendix E the listings in the column 'Student Prize winner' were incomplete. This re-typing of the table lists the most up-to-date information for this column.

W. Summerfield
Honorary Secretary, ANZIAM
November 2005

Executive Committees of the Division of Applied Mathematics. The Editor of the A.M.S. Journal, series B, has always been co-opted to serve on the executive, while the president of the A.M.S. Council is an ex officio member. From time to time, others have been co-opted to the executive.

Year	Chairman	Vice Chairman	Secretary	Treasurer	Editor (Co-opted member)	Ordinary Members		Co-opted Members	President o AMS (Member exofficio)
1974	VT Buchwald	S Rosenblat	ED Fackerell	D Elliott	JJ Mahony (Interim)	AJ Gilks A Guttmann BR Morton JR Philip	AF Pillow RB Potts I Tang		G Szekeres
1975	VT Buchwald	S Rosenblat	ED Fackerell	D Elliott	JJ Mahony	AJ Gilks A Guttmann EO Tuck	AF Pillow JR Blake		H Green
1976	VT Buchwald	S Rosenblat	JR Blake	D Elliott	JJ Mahony	MJ Manton RE Jonnston RR Huilgol	AJ Guttmann JM Gani AF Pillow	IH Sloan	H Green
1977	S Rosenblat	JM Gani	JR Blake	D Elliott	JJ Mahony	PW Suchan DG Hurley RE Jonnston	EO Tuck AM Watts DLS McElwain	VT Buchwald AF Pillow	PAP Moran
1978	RB Potts	CJ Thompson	JR Blake	D Elliott	IH Sloan	RD Braddock PW Buchen RR Huilgol	DLS McElwain CH Scott PE Kloeden	S Rosenblat	PAP Moran
1979	RB Potts	CJ Thompson	RD Braddock	D Elliott	IH Sloan	PE Kloeden R Weiland EO Tuck	J Sebury J Gani AJ Guttmann	WE Smith RS Anderssen	AL Blakers
1980	CJ Thompson	EO Tuck	RD Braddock	JD Donaldson	IH Sloan	BS Goh RS Anderssen AJ Guttmann	WS Perriman S Rosenblat WE Smith	WE Smith	AL Blakers
1981	CJ Thompson	EO Tuck	RD Braddock	JD Donaldson	IH Sloan	RE Jonnston DLS McElwain BJ Noye	BS Goh WE Smith J Knight	*	AL Blakers
1982	RS Anderssen	N de Mestre	RD Braddock	JD Donaldson	IH Sloan	RE Jonnston J Knight S McElwain	F Salzborn WE Smith W Perriman		G Preston
1983	RS Anderssen	N de Mestre	RD Braddock	JD Donaldson	WE Smith	BR Benjamin JR Blake D Blest	AK Easton PE Kloeden WC Summerfield		G Preston