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Edmund Jarzembowski at 70: An appreciation

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Ed was born in Paddington, London, England on 17 September 1951, and attended St Marylebone Grammar School, London from 1963 to 1971. His interest in geology and palaeontology began at an early age when, as a schoolboy, he visited building sites, quarries and pits in and around London and Surrey looking at the geology and searching for fossils. He would write up and illustrate these visits, and some of his detailed reports would not look out of place in newsletters or magazines today. He attended Nottingham University (Geology Department) from 1971 to 1974, where he received an honours degree in Geology. Ed met his future wife, Biddy (J. Brigid Elizabeth Brenan), while she was studying for a degree

FIGURE 1. Ed Jarzembowski talking at the 7th Fossils X3 conference in Edinburgh, UK, 28 April 2016. Photo: Chung-Kun Shih.

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in Biological Sciences at London University, and they married in 1978.

After university, he joined the British Museum (Natural History) [BM(NH), now The Natural History Museum (NHMUK)] as an Assistant and then Scientific Officer in the Department of Entomology, working with Paul Whalley. Whilst at the BM(NH) (1974–1987), Ed did his PhD (Early Cretaceous insects from southern England) at the University of Reading (Geology Dept.) (part time, 1981–1987) (Fig. 2), which commenced under Professor Perce Allen FRS. It was while at the BM(NH) that Ed recognised three priority areas in insect palaeontology that needed to be addressed: the early insect record (or lack thereof) (Devonian–Mississippian); the gap in the Cretaceous insect record; and the need for a revision of 'Tertiary' insects, the last two of which would form a large part of his subsequent research. His expertise in entomology, meanwhile, was called upon by the department's enquiries desk. One day, a national defence representative, with a view to developing new technologies for air defence, enquired how certain moths were able to suddenly drop out of the path of bats homing in on them for dinner. Somewhat mischievously, Ed responded with the obvious answer "50 million years of evolution!".

FIGURE 2. Ed Jarzembowski at the University of Reading for the awards ceremony of his PhD, 1987.

From the BM(NH), Ed moved to Brighton to become Principal Keeper (Natural Sciences) at the Booth Museum of Natural History (1987–1992). However, in 1992, under pressure to save money, Brighton Borough (now City) Council had to implement a number of budget cuts, one of which was Ed's post at the Booth Museum, and consequently Ed was redeployed to the role of Principal Policy ('Green') Officer for Brighton (1992–1995), a post he held until moving to Maidstone, Kent in 1995 to become Keeper of Natural History at Maidstone Museum (1995–2011), the county museum, thus completing his circuit of the Early Cretaceous of southern England. At the last, research projects included the superficial geology of the classical palaeontological (and archaeological) sites at nearby Aylesford which were dated back to the Wolstonian glacial (MIS 8). Further afield, the insects of the lower Weald Clay Formation at Cooden Beach were investigated before the proposed construction of coastal defences, work which has to date not commenced.

Over the years, Ed has also undertaken teaching roles at the Universities of Brighton and Sussex, and even the Kent Archaeological Society, and acted as a conservation consultant for the Nature Conservancy Council (now Natural England). He was involved with the Fossil Insects Network, funded by the European Science Foundation from 1996–1999, which enabled fossil insect researchers to get together, communicate and collaborate effectively for the first time. In 2000, he was an Honorary Professor at the University of São Paulo, Brazil, at the Ribeirão Preto Campus, and he has also been research advisor, supervisor and examiner at a number of universities, including the Universities of Brighton, Bristol, Greenwich, Paris and Reading, plus being a Visiting Research Fellow at the University of Reading, and Visiting Research Scientist at the Museum of Comparative Zoology, Harvard where he met palaeoentomologist, the late Professor Frank Carpenter and his student, the late E.O. Wilson. Ed has also given presentations at numerous international conferences over many years (Fig. 1).

Following his retirement in 2011 after another round of local government budget cuts, Ed was appointed Visiting Professor at the Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences, Nanjing (NIGPAS) (Figs 3A, 3B). It proved a golden opportunity for him to discover the Cretaceous lakes of Asia after studying the Wealden rivers and lakes of England. He has been travelling to Nanjing periodically, participating in fieldwork, teaching and research, and although the pandemic curtailed these visits, he has continued to correspond with his Chinese colleagues. As well as being Scientific Associate (researcher) at the NHMUK (2013–present), and Leverhulme Emeritus Fellow (2018–present), he is also Museum Mentor at Seaford's Martello Museum,

East Sussex, UK (1987–present) and Secretary of the International Palaeoentomological Society (IPS) (2001–present). In 2015, Ed received the 'Jiangsu Friendship Award' from the Jiangsu Province of China (population 85 million including Nanjing) (Fig. 3C). This is the highest award of the Jiangsu Provincial People's Government for foreign experts and is given in recognition of outstanding contributions to Jiangsu Province with regard to economic progress and social development (Austen, 2015).

Ed has had at least 19 new insect species named in his honour, covering all four of the Martynov divisions of the winged insects: *Aeolothrips jarzembowskii* Shmakov, 2014; *Awightipsocus jarzembowskii* Azar, 2014; *Burmobittacus jarzembowskii* Zhao, Bashkuev, Chen & Wang, 2017; *Burmocorynus jarzembowskii* Legalov, 2020; *Helius edmundi* Krzemiński, 2019; *Jarzembowskia edmundi* Zherikhin & Gratshev, 1997; *Jarzembowskiaeschnidium polandi* Fleck & Nel, 2003; *Jarzembowskiops caseyi* Kirejtshuk, 2020; *Komnixta jarzembowskii* Szwedo, 2019; *Lepidomma jarzembowskii* Li & Cai, 2020; *Montsecosphex jarzembowskii* Rasnitsyn & Martínez-Delclòs, 2000; *Narkeminopsis eddi* Whalley, 1979; *Palaeoaphalara jarzembowskii* Klimaszewski, 1993; *Pyrenicocephalus jarzembowskii* Štys, 2010; *Rhabdomastix jarzembowskii* Krzemiński, 2004; *Stavba jarzembowskii* Li, Zhao, Gao, Wang & Xiao, 2020; *Transigryllus edmundi* Gorochov & Coram, 2022; *Tytthobittacus jarzembowskii* Kopeć, Soszyńska-Maj, Krzemiński & Coram, 2016; *Valdiscytina jarzembowskii* Popov, 1993; as well as shared honours in the putative Early Cretaceous Wealden flowering plant, *Bevhalstia pebja* Hill, 1996, *pebja* being the initials of the team set up to recover the elusive 'flowers' before publication (*p* = Peter Austen; *e* = Ed Jarzembowski; *b* = Biddy Jarzembowski; *j* = Joyce Austen; and *a* = Andrew Ross) (Hill, 1996).

He has served on 35 councils, committees, boards, and organisations in various capacities, including the Geologists' Association (1987–1992), with a spell as Field Meetings Secretary (1990–1992); the Palaeontological Association (1987–1994), including serving as Field Guides Editor (1993–1994); the Tertiary Research Group (1984–1987); and the European Science Foundation, Strasbourg, where, as Scientific Network Secretary (1996–2000) he helped lay the foundations for the creation of the International Palaeoentomological Society, of which he was a founder member and where he has served as Secretary since its inception in 2001. He also featured in Debrett's *Who's Who* from 1991 until his retirement in 2011.

Ed has been successful in securing funding for a number of operational, wildlife and geo-conservation projects from various funding bodies (*e.g.*, the UK's Millennium Fund, Area Museums Service, Environment Agency, British Ecological Society) facilitating the major refurbishment of historic Maidstone Museum (supported by the Heritage Lottery Fund) where Sir David Attenborough kindly agreed to preside over the opening of the new natural history, geology and palaeontology galleries (Fig. 3D). He has also secured funding in a number of international scientific collaborative projects, including from the European Science Foundation (ESF) to set up an international fossil insect network; the International Geological Correlation Programme (IGCP) to foster international geological co-operation; and the Royal Society, which facilitated studies of Purbeck and Wealden insects with palaeoentomologists from the former Soviet Union and elsewhere, leading to a number of important publications.

He has published some 290 peer-reviewed papers reflecting his on-going research interests, mostly in specialist journals, occasionally in *Nature* and *Science*; his h-factor is 35 (ResearchGate). Although fossil insects are Ed's main focus, he has also published on other groups including chelicerates, crustaceans and gastropods, as well as around 20 papers outside of the natural sciences including in archaeological journals. During his museum career, Ed has written over 600 non-geological articles concerned with the natural sciences (as well as history and archaeology) for numerous newsletters, magazines and newspapers, accompanied by some 100 radio and television broadcasts, reaching out to a wider public audience. Whilst at Maidstone he also had his own weekly column (*Nature Notes*) for a number of years in the regional newspaper, the *Kent Messenger* (Fig. 4A), and even now, with his wife Biddy, he has a regular column in his village monthly newsletter, the *Bishopstone Parish Pump*, as well as occasional contributions to another town publication, *Seaford Scene*.

Over the past 50 years Ed has conducted extensive fieldwork throughout the UK, in particular in the Weald and Pennsylvanian (Fig. 4C) (see PAA below). He has also undertaken fieldwork with international groups in Brazil, Canada, China (Fig. 4B), Dominican Republic, France, Germany, Ireland, Lebanon (Figs 6C, 6D), Poland, Romania, Russia, South Africa and Spain.

An important aspect of Ed's research career is that rather than specializing in just one particular group of insects, he has worked across the board, covering all the traditional divisions of the Hexapoda. This is reflected in the breadth of insects named in his honour and also in the scope of his publications, and this approach has allowed him to make significant advances in two of the three priority areas in insect palaeontology he had recognised in the 1970s—the Cretaceous insect record and the revision of 'Tertiary' insects. Despite some advances, the third, the early insect record (Devonian–Mississippian) with deposits mainly in the north of England and Scotland,

FIGURE 3. A, Ed Jarzembowski in the laboratory at Nanjing, 2012. **B**, Ed 'feeding' the dinosaur in Nanjing outside NIGPAS (CAS) public museum, 12 June 2012. **C**, Ed Jarzembowski receiving the 'Jiangsu Friendship Award', 18 September 2015. **D**, Ed Jarzembowski with Sir David Attenborough at the opening of the West Wing in Maidstone Museum, 2 August 2006.

far away from the Weald, still remains a challenge (Jarzembowski, 2021).

PETER A. AUSTEN

From a personal perspective I have known Ed and his wife Biddy since December 1984, when Ed sent an invitation through his BM(NH) colleague, mineralogist Dr Bob Symes OBE (then President of the Harrow & Ruislip Geological Society in London), for Society members to visit the site of an old colliery spoil heap in the county of Somerset, UK, to look for fossil insects. The site, at Lower Writhlington Colliery, was one of the last coal mines to be worked by hand, and contractors were reprocessing the spoil for previously unclaimed coal, which provided the ideal opportunity to look through the spoil for fossil insects. After that first visit, Ed realized the site's future

potential for the recovery of Pennsylvanian fossil insects and, together, we set about organising regular rescue collecting visits through the Geologists' Association. These visits involved large numbers of volunteers (an extraordinary 350 on one occasion) from geological societies around the country (Fig. 4D). The site was well known for its abundant well-preserved fossil plants, but the volunteers were asked to donate any insects they found to a recognised institution for further study. In 1987, as the contractors were winding down their operations, we secured funding from the Geologists' Association Curry Fund for the contractors to set aside 3,000 tonnes of the more fossiliferous material for future work, and renamed the site the Writhlington Geological Nature Reserve. Over the period 1984–2000 around 1,300 insects and other arthropods were recovered, many of which were new species—the previous tally in 1984 was around 80 from the whole of the British Carboniferous. The keys to the success of this project were Ed's extensive knowledge of fossil insects and their environments, his infectious enthusiasm, and the ability to bring together multiple specialist researchers to study and publish the material that had been found. Thanks to Ed's encouragement, more than 30 peer-reviewed papers by multiple authors covering all aspects of the Carboniferous fauna, flora and environment at Writhlington have so far been published, as well as many student projects undertaken.

These same qualities have been key to the success

FIGURE 4. A, Ed pictured at Maidstone Museum with a giant ammonite for the *Kent Messenger* newspaper, 1996. **B**, Ed Jarzembowski working with Bo Wang examining the Badaowan Formation (Lower Jurassic), northwestern China, 7 September 2016. **C,** Ed and Biddy Jarzembowski after emerging from deep underground in the Tower Colliery, the last deep mine in Wales, 31 August 1997. **D**, Writhlington Geological Nature Reserve, 1994, when 350 volunteers turned up, 16 April 1994. Photo: Colin Prosser, Natural England.

of his work on Wealden insects. Ed had been visiting the Wealden quarries of south-east England since the 1960s, but since 1987 we've been organising regular Wealden field meetings to these quarries (Figs 5A–D, 6A), once again using the successful format of involving multiple participants. This has led to the discovery and publication of numerous new species of Wealden insects (approx. 150 including the Surrey dragonfly), with many more recovered specimens still to be studied and described. There have also been many other important finds including the discovery of a partial skeleton of an iguanodontian (*Mantellisaurus*) at Smokejacks, subsequently excavated by the NHMUK which inspired a detailed palaeoenvironmental study (Nye *et al*., 2008) (Fig. 6B). Recently, during the pandemic lockdown while confined to home, Ed processed previously collected material often donated by the participants of the Wealden field trips, recovering around 3,000 further insect specimens, many new to science. Apart from a few still being studied, all are now in the NHMUK, available for future research.

In 2001, when Ed was a guest expert on the BBC television programme 'Dinosaur Isle', the discovery of Wealden insects in amber with the help of Professor Dany Azar and Mr Martin Simpson, nearly stole the show from the main focus—dinosaurs!

Although Ed is an expert palaeoentomologist and field geologist, most people who know Ed will realise that his interests and knowledge are wide ranging. He often has several projects on the go at any one time, and his output is quite prolific, particularly since being involved with NIGPAS, collaborating and producing research papers and undertaking numerous peer reviews as well as working on projects nearer to home. He has an extraordinary memory and is able to recall conversations and events in detail from many years ago, which no doubt helps in his research, and his irrepressible laugh and infectious enthusiasm ensures that any meeting with Ed is a memorable one.

BO WANG

I have known Ed since 2007 when we attended the Fossils X3 conference in Spain. I visited Ed's lab at Maidstone Museum to examine some Wealden insects, especially palaeontinids in 2010. At that time, I invited Ed to apply for the Chinese Academy of Sciences (CAS) guest professor position. Fortunately, Ed got this CAS fellowship and became a guest professor in our institute since 2012. During the past ten years, we have had an extensive cooperation about Mesozoic insects and amber biota. Furthermore, Ed has also been to several famous Chinese fossil localities to collect fossil insects and amber, such as Karamay in Xinjiang of northwestern China and Manzhouli in northeastern China. In Nanjing, Ed is very productive, and he has already published more than 120 papers together with Nanjing colleagues including Professor Haichun Zhang and Professor Daran Zheng. He is very kind and spent much time teaching the Chinese graduates and undergraduates and helping them improve their papers and theses. In Nanjing, Ed is also interested in the taxonomy of Archostemata, a primitive group of beetles, from Kachin amber in Myanmar. He has made a great contribution to the evolution of this group. Because of his extraordinary contribution to scientific research in Jiangsu, he won the 'Jiangsu Friendship Award' from the Jiangsu Province of China in 2015.

ANDREW J. ROSS

I first met Ed in 1987 when he became Keeper of the Booth Museum of Natural History in Brighton. I already had close contact with the Booth Museum, being a founding and active member of the Brighton & Hove Geological Society, set up in 1984 by the Keeper of Geology, John Cooper, when I was a teenager living nearby. At the time I was obsessively interested in all fossils. In 1987 I accompanied Ed on a trip to Writhlington Geological Nature Reserve and was very fortunate to find a 10 cm-long wing. I thought it was a dragonfly, but Ed informed me it was a palaeodictyopteran (subsequently named *Mazanopterum cooperi* Prokop, Pecharová, Jarzembowski & Ross, 2018)—a group that I had never heard of before, and from then on I was hooked. From my first visit to Smokejacks Brickworks (see Ross & Cook, 1995) that same year, Ed realised that I had a good eye for spotting small fossil insects and he encouraged me to look for more, so I joined him on many trips to Wealden and other sites. One of the sites Ed took me to was Rudgwick Brickworks (see Novokshonov *et al*., 2016) and that became the subject of my undergraduate project at Kingston Polytechnic. As a student, I spent much of my spare time reading papers on fossil insects, including many that I photocopied from libraries and Ed's reprint collection, and I started producing a bibliography (Ross, 1997). This was a bygone time when home computers were primitive, typewriters were still actively used and the only way to request reprints was by post. It was also a time when there were relatively few people in the world studying fossil insects. After finishing my degree in Geology, thanks to John and Ed, I was back at the Booth Museum working as the Geological Site Surveyor for Sussex for the Regionally Important Geological Sites (RIGS) initiative, and in the process discovered new fossil insect sites (*e.g*., Keymer Tileworks, see Cook & Ross, 1996). It was during this time that Ed was invited to write the insect chapter for *The Fossil Record 2*. He didn't have time to compile it himself, so asked me if I would do it and of course I jumped at the chance. We had many a happy discussion trying to iron out the vagaries of fossil insect systematics and taxonomy and Ed was particularly

FIGURE 5. A, Ed studying new finds at Clockhouse Brickworks, Surrey, 22 July 2006. **B**, Ed explaining the significance of the discarded large calcareous siltstones to a Geologists' Association field meeting at Langhurstwood Quarry, West Sussex, 23 July 2011. **C**, Ed at the discovery of amber at Smokejacks Brickworks, Surrey, the first to be recovered from the Weald Clay, 12 April 2015. **D**, Ed excavating for fossil insects at Smokejacks Brickworks, Surrey, 16 September 2017.

helpful in translating Russian papers, resulting in our first joint publication (Ross & Jarzembowski, 1993). In 1993 I registered to undertake a PhD on Purbeck and Wealden cockroaches with Ed, Prof. Rory Mortimore (University of Brighton) and Prof. Roland Goldring (University of Reading) as supervisors. However, also that year the film *Jurassic Park* came out and I was invited by Prof. Richard Fortey at the Natural History Museum in London to curate their fossil insect collection and deal with amber enquiries, which became a distraction from my PhD. Much later, in 2004, the opportunity arose to acquire grant-funding from The International Association for the Promotion of Cooperation with Scientists from the new Independent States of the former Soviet Union (INTAS) for an international project to continue Ed's work on the insect fauna of the Bembridge Marls (Ross, 2014), and three new species were named after Ed as a result. Although we have gone our separate ways and collaborate much less than in our early years, I am eternally grateful to Ed for introducing me to the fascinating world of Palaeoentomology and kick-starting my career.

ROBERT A. CORAM

I cannot actually remember exactly when or where I first met Ed. It would have been some time in the late 1980s, when I was an eclectic fossil collector with little idea of where my specimens would end up or even which were potentially of scientific value. I had stumbled across some insect fossils in the Cretaceous Purbeck strata of Dorset, southern England, and one way or another, these came to Ed's attention and we established contact. From that point, Ed gently nudged me in the direction of focussing more on insect fossils and learning what they actually were. He also emphasised how much more valuable they could be if properly studied and deposited in a suitable museum. Ed kick-started this process with an invitation to co-author a short paper (along with Andrew Ross) for a regional journal in 1994 (Clifford *et al*., 1994).

From then on, I was almost literally bitten by the bug, resulting many years down the line in a rough tally of five hundred visits to Purbeck insect sites, in excess of ten thousand specimens (including many new species), and over twenty co-authored papers with Ed. I also followed

FIGURE 6. A, Ed Jarzembowski with a dinosaur footcast at Smokejacks Brickworks, Surrey, 28 July 2012. **B**, Ed Jarzembowski with Geoff Toye at Smokejacks with the iguanodontian (*Mantellisaurus*) discovery, 22 July 2001. **C**, Ed Jarzembowski searching for fossil insects in Bkassine, during 6th Fossil X3 conference in Byblos, Lebanon, 2013. **D**, Dany Azar and Ed Jarzembowski on a field trip in Roum, during 6th Fossil X3 conference in Byblos, Lebanon, 2013.

in Ed's footsteps by completing a PhD at the University of Reading—on Purbeck insects rather than Wealden ones—with Ed as co-supervisor.

I am still in regular contact with Ed, usually remotely, but over the years we have periodically gotten together at insect sites or pubs or in more formal settings such as the BBC's 'Live from Dinosaur Island' project, and the Second International Congress on Palaeoentomology in Kraków in 2001, where the International Palaeoentomological Society was born. I am presently a research associate at the University of Bristol working on UK Triassic deposits (some cool vertebrates, but not a scrap of insect so far), but it's always nice to occasionally reconnect with Ed to resume the insect work we started more than thirty years ago.

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