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Biological sciences

'GREAT ROSARIAN OF THE WORLD' – BRITISH HYBRIDIZER OF ENGLISH GARDEN ROSES DAVID AUSTIN

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"Everyday, I marvel at my good fortune to have been able to make a life out of breeding roses. My greatest satisfaction is to see the pleasure my roses give to gardeners and rose lovers worldwide."

David Austin

David Austin's name is synonymous with roses; he has been breeding them for more than 50 years, introducing some 200 selections which have helped repopularise and redefine their use in gardens around the world [3], see video [6; 7].



Fig. 1. Rosa 'Belle Isis'.

Fig. 2. Rosa 'Dainty Maid'.

Fig. 3. Rosa 'Constance Spry'.

'Constance Spry' (Fig. 3, see video [1]) was the first rose developed commercially by David C.H. Austin (1926–2018, see Fig. 4), an amateur rose breeder at the time, living in Shropshire, England. David Austin's first rose is still widely grown today for its magnificent, deeply cupped blooms of luminous delicacy and strong myrrh scent. D. Austin was interested in developing new rose cultivars that would look and smell like old-fashioned roses. One of his early successes was crossing the Gallica rose, *Rosa* 'Belle Isis' (Fig. 1), and the floribunda, *Rosa* 'Dainty Maid' (Fig. 2). Among the resulting seedlings was a strong, sweet smelling rose with large pink flowers. Austin showed the new cultivar to his friend and legendary horticulturalist, Graham Thomas (see Fig. 4), who showed the rose to Hillings

Nursery. The nursery introduced the new cultivar in 1961. 'Constance Spry' is considered the first of the modern 'English Roses' [18; 3]. David's career was set. By 1969 he was doing a sufficient trade that he established *David Austin Roses* at the Albrighton farm. Now These gardens are home to a Plant Heritage National Plant Collection of English roses. We can watch a tour of the David Austin Roses nursery and admire these exquisitely beautiful roses with the experts [9], see **video** [21; 13].

By 1969 David had refined the breeding process and launched his first range of repeat-flowering 'English Roses', the name he coined for his ground-breaking varieties that fused the old with the new. He reasoned that the French have the Gallica roses, the Scottish the Scots, so why shouldn't the English also have a group of roses to call their own–especially with the rose being so intertwined in England's culture and history [7].

David Charles Henry Austin was born on the 16th of February in 1926 in Albrighton in Shropshire, he was the son of a farmer. The family moved to Shrewsbury on the eve of the Second World War, but having come back to Albrighton, David started working at the family farm. He had already showed an amateur interest in breeding roses, and made a friendship with a gardener and rosarian Graham Stuart Thomas (see Fig. 6) [20].



Fig. 4. David C.H. Austin.



Fig. 5. Rosa 'Graham Thomas'.

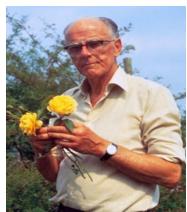


Fig. 6. Graham Thomas.

In 1983 David experienced his first real breakthrough when he introduced three English Roses at the Chelsea Flower Show, including the rose named after his good friend and mentor, the revered horticulturist, Graham Thomas (Fig. 6, see video [10]). The response from the press, as well as the general public, to Rosa 'Graham Thomas' (Ausmas) (Fig. 5) was overwhelming and David credited it with being the rose most responsible for the recognition and success of the English Roses. The following year saw the first of many gold medals at the RHS Chelsea Flower Show, and the David Austin rose garden gradually became one of the highlights for visitors, which continues to this day [7], see Fig. 12, 13.

All David Austin roses have a collective style and reflect one man's vision. All have beautiful blooms and in most cases wonderful fragrance held on graceful attractive shrubs. A garden of these outstanding roses is hard to beat for sheer exuberance of flower and fragrance.

Breeding a new rose is a unique mix of art and science requiring patience and dedication. From pollination to sale the whole process of creating a new English Rose takes 10 years. With 60 years of expertise our breeding programme is one of the largest in the world.

There are some steps: 1) Selecting Parents, see Fig. 7 (the key to successful rose breeding is having a deep understanding and intuition for which two roses might work well together. 2) Hybridisation (Each year workers do 40,000 individual crosspollinations, all by hand, using a small knife to remove the pollen from the first parents and a paintbrush to apply it to the other parent. The cross-pollination will eventually form a rose hip, containing around 10 child seeds - a mix of both parents).

3) Seed Sowing, see video [11] (By November the hips will have ripened sufficiently for us to extract the child seeds. In January workers will sow around 350,000 individual seeds on benches in the greenhouses, see Fig. 8, 9, 10); 4) Initial Selection (At this stage we are assessing full-sized rose bushes in true garden conditions). 5) Field Trial (At this stage we are assessing full-sized rose bushes in true garden conditions (see Fig. 11). 6) Final Selection (At this vitally important stage, workers are looking for the three or four roses which they believe are truly worthy of being introduced to the market) [2].



Fig. 7. D.Austin. Selecting Parents.

Fig. 8. Seed Sowing

Fig. 9. Seeds.



Fig. 10. Child seeds.



Fig. 11. Field Trial.

Apart from David Austin's passion for roses, he had a great love for literature and his sitting room was lined with bookcases filled with a great variety of books. The first book he wrote was *The Heritage of the Rose*, published in 1988.

The annual catalogues of David Austin Roses are sought after for their descriptive text. In the 1980s David began to publish on a larger scale, with his historical study *The Heritage of the Rose* (1988), followed by *Old Roses* and *English*

Roses (1992), David Austin's English Roses (1993; voted Gardening Book of the Year by the Garden Writers' Guild), and Shrub Roses and Climbing Roses (1999) [20].

In 2001 David was awarded the Victoria Medal of Honour (VMH) by the RHS, and the following year the Dean Hole Medal by the Royal National Rose Society. In 2004 he received a Lifetime Achievement Award from the Garden Centre Association. He was awarded the OBE in 2007. In 2010 he was named 'Great Rosarian of the World' by American rose-growing societies [2; see **video** [5; 8; 6; 13].

David Austin won a remarkable 25 Gold medals at the RHS Chelsea Flower Show, but perhaps his greatest achievement is in the joy his roses bring countless gardeners, as he confirms. 'It's a source of satisfaction to see the pleasure they give, bred above all for the charm, beauty and fragrance of their individual flowers [17].



Fig. 12. Entrance to Austin Roses.

Fig. 13. David Austin Rose Gardens.

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