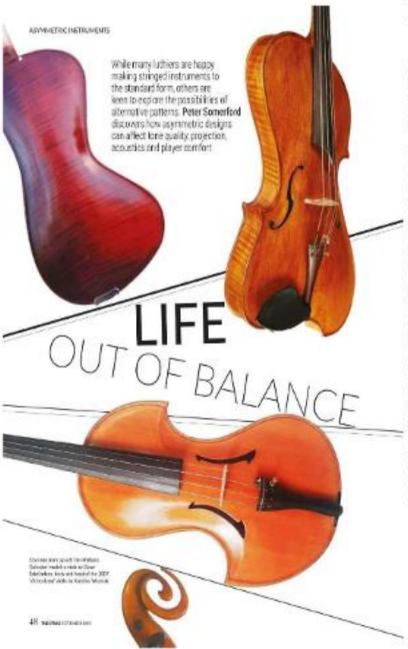


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urning back to the violin, a recent project at the Santa Cecilia State Conservatory of Music in Italy brought together luthier Mauro Fabretti and Massimo de Bonfils, a violinist and professor of stringed instrument history and technology, to lead in the creation of an experimental

asymmetric instrument. The 'Santa Cecilia' violin was designed. according to De Bonfils, to achieve more volume, a better sound with wider harmonic range, and improved playability in higher positions. The most obvious asymmetry in this unusuallooking instrument is the sloping and rounded shape of the upper bouts, each of which has its own soundhole. Fabretti says that the two upper 'lungs' of the

instrument are intended to act

'in a certain sense as amplifiers, >
and as independently as possible with respect to the two lower
lungs that are set in vibration by the soundpost placed under
the bridge. The aim is to provide a wider and more nuanced
harmonic range.' As with other ergonomic violas, the upper
treble side of the 'Santa Cecilia' has been lowered to favour lefthand playability, but the geometry of the lowered side in this
instance derives directly from Fibonacci's 'golden ratio'.

The 'Santa Cecilia' by Mauro

Fabretti and Massimo de Bonfils