

| Sex | Category | Where | Event | Time | Wind | Name | Relay Team | Born | Venue | Date | No. of Records | Other |
|-------|----------|--------|---------------|----------|------|--|---------------|----------|------------------|----------|----------------|-------------|
| Women | Senior | Indoor | 50m | 6.44 | | Ailis McSweeney | | 04.10.83 | Liévin, FRA | 26.02.05 | 1 | |
| Women | Senior | Indoor | 55m | 7.09 | | Aoife Hearne | | 21.08.79 | Providence, USA | 20.02.99 | 1 | |
| Women | Senior | Indoor | 60m | 7.30 | | Anna Boyle | | 29.03.83 | Birmingham, ENG | 03.03.07 | 2 | |
| Women | Senior | Indoor | 100m | 12.02 | | Anna Boyle | | 29.03.83 | Bath, ENG | 01.02.06 | 2 | |
| Women | Senior | Indoor | 200m | 23.17 | | Ciara Sheehy | | 12.08.80 | Birmingham, ENG | 02.03.03 | 1 | |
| Women | Senior | Indoor | 400m | 51.58 | | Karen Shinkins | | 15.10.76 | Blacksburg, USA | 09.02.02 | 1 | |
| Women | Senior | Indoor | 800m | 2.02.54 | | Ciara Everard | | 10.07.90 | Athlone | 10.02.13 | 1 | |
| Women | Senior | Indoor | 1500m | 4.08.66 | | Ciara Mageean | | 12.03.92 | Karlsruhe, GER | 06.02.16 | 2 | New in 2016 |
| Women | Senior | Indoor | Mile | 4.28.40 | | Ciara Mageean | | 12.03.92 | New York, USA | 20.02.16 | 2 | New in 2016 |
| Women | Senior | Indoor | 2000m | 5.56.32 | | Monica Joyce | | 16.07.58 | Los Angeles, USA | 18.01.85 | 1 | |
| Women | Senior | Indoor | 3000m | 8.43.74 | | Mary Cullen | | 17.08.82 | Boston, USA | 13.02.09 | 1 | |
| Women | Senior | Indoor | 5000m | 15.17.28 | | Sonia O'Sullivan | | 28.11.69 | Boston, USA | 26.01.91 | 1 | |
| Women | Senior | Indoor | 50m H | 6.80 | | Derval O'Rourke | | 28.05.81 | Liévin, FRA | 03.03.06 | 2 | |
| Women | Senior | Indoor | 60m H | 7.84 | | Derval O'Rourke | | 28.05.81 | Moscow, RUS | 11.03.06 | 2 | |
| Women | Senior | Indoor | High Jump | 1.93m | | Deirdre Ryan | | 01.06.82 | Leverkusen, GER | 18.01.09 | 1 | |
| Women | Senior | Indoor | Long Jump | 6.59m | | Kelly Proper | | 01.05.88 | Turin, ITA | 06.03.09 | 1 | |
| Women | Senior | Indoor | Triple Jump | 13.28m | | Taneisha Scanlon | | 19.11.77 | Sheffield, GBR | 12.02.05 | 1 | |
| Women | Senior | Indoor | Pole Vault | 4.45m | | Tori Pena | | 30.07.87 | Reno, USA | 20.01.12 | 1 | |
| Women | Senior | Indoor | Shot | 17.06m | | Marita Walton | | 07.10.60 | New York, USA | 26.02.82 | 1 | |
| Women | Senior | Indoor | 4x200m | 1.37.43 | | Ciara Sheehy, Martina McCarthy, Derval O'Rourke, Claire Bergin | National Team | n/a | Cardiff, WAL | 10.02.02 | 1 | |
| Women | Senior | Indoor | 4x400m | 3.34.61 | | Karen Shinkins, Ciara Sheehy, Michelle Carey, Joanne Cuddihy | National Team | n/a | Budapest, HUN | 07.03.04 | 1 | |
| Women | Senior | Indoor | 4x200m (Club) | 1.43.98 | | Mairead Deevey, Mairead Murphy, Kelly Proper, Kalyn Sheehan | Ferrybank AC | n/a | Nenagh | 04.04.04 | 1 | |
| Women | Senior | Indoor | 3000m Walk | 11.35.34 | | Gillian O'Sullivan | | 21.08.76 | Belfast | 15.02.03 | 1 | |
| Women | Senior | Indoor | Pentathlon | 4,043pts | | Elizabeth Morland | | 08.03.98 | Athlone | 23.01.16 | 1 | New in 2016 |