A series of topics within nanotechnology will be discussed. New methods for graphene growth will be shown, and methods for the synthesis of graphene nanoribbons, and their uses in devices, materials and medicine, particularly for spinal cord repair and treatment of traumatic brain injury and stroke. Also, the building of single molecule nanomachines will be presented. These include single molecule cars with wheels, chassis, axles and light activated motors that spin at 3 million rotations per second. And single molecule nanomachines can be targeted to and used for the killing of cancer cells.

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