

the beaded pattern is expected, where L_s is the transfer length of a pull-apart basin and L_n is the spacing between two en echelon fault segments. ⑥ Lattice basins are developed in the distributed shear zones with anastomosing faults.

Conclusions: Observations at the centimeter scale show considerable variation in the orientation of synthetic and antithetic Riedel shears relative to a shear zone. Many types of Riedel shear are formed at the centimeter scale. By complying our observations and the published data about the sedimentary basins in nature, we proposed six patterns of the sedimentary basins and their structures relative to the Riedel shears developed in nature.

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Keywords: Riedel shear; strike-slip basin; pull-apart basin; tectonic pattern; basin pattern

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中国地质学会 2016 年度“十大地质科技进展”和“十大地质找矿成果”揭晓

2月3日,中国地质学会2016年度“十大地质科技进展”和“十大地质找矿成果”评选结果揭晓。

本次评选工作自2016年10月启动。中国地质学会于1月14日、22日分别召开了2016年度“双十”初评、终评会议,经评审委员会专家认真、严谨的评审和投票,最终评选出了2016年度十大地质科技进展、十大地质找矿成果。

本年度“双十”成果候选项目最大亮点是找矿成果重实效,科技成果重新技术新方法。科技进展组涉及基础地质、矿床地质、油气地质、地热及方法技术、水工环等多个专业;找矿成果组涉及金属矿产、非金属矿产、能源地质等多个领域。总的来看,本年的“双十”评选呈现出专业分布广泛、覆盖面大、候选项目普遍实力强的特点,也从侧面反映出我国地质科技在不断创新,地质找矿在不断突破。

获奖项目如下(排名不分先后):

十大地质科技进展分别是:(1)地球上最早大型多细胞生物化石的发现;(2)山东矿床成矿系列及找矿方向研究;(3)铀矿大基地资源扩大与评价技术研究;(4)新疆阜康市白杨河矿区煤层气开发利用先导性示范工程;(5)我国三稀资源战略调查与评价;(6)元坝超深高含硫生物礁大气田高

产稳产技术;(7)地质灾害综合防灾减灾方法技术取得新进展;(8)古老油气系统源灶多途径规模成烃机理与成藏;(9)青藏铁路沿线高温地热资源调查评价;(10)新一代高精度南海地质地球物理图系编制。

十大地质找矿成果分别是:(1)新疆新源县卡特巴阿苏矿区金(铜)矿床勘探;(2)山东省莱芜市张家洼矿区深部及外围铁矿普查;(3)新疆阿克陶县奥尔托喀讷什锰矿勘查;(4)新疆察布查尔县洪海沟铀矿勘查取得重大突破;(5)新疆和田县火烧云矿区铅锌矿普查;(6)广西平南县大洲矿区稀土矿普查;(7)山西省沁水煤田黎城县黎侯勘查区煤炭详查;(8)陕西省陕北石炭—二叠纪煤田府谷矿区马家梁—房子坪勘查区普查;(9)准噶尔盆地玛湖凹陷石油勘探获得重大突破;(10)贵州省松桃县桃子坪锰矿详查。

“The Top 10 Achievements of Geological Science and Technology” and “Top 10 Prospecting Results” of Geological Society of China in 2016 Elected

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